UNIVERSITY COLLEGE LONDON

ANNUAL REPORT 1985-1986

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FOREWORD BY THE PROVOST

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PART I. SOME ENCOURAGING DEVELOPMENTS

1. CELEBRATIONS AND EXTERNAL COMMENDATIONS

1.1. *Present-day achievements in the context of the past*

We at University College London had much to celebrate during 1985-86; beginning in November 1985 with the visit of Her Majesty the Queen recorded in detail on page 22 of this Report; continuing with some special recognitions of academic excellence in a wide variety of areas of our work, including powerful endorsement of plans for the University College and Middlesex School of Medicine; and culminating in our universally welcomed unification, from 1 August 1986, with the Institute of Archaeology. All of these celebrations and external commendations have helped (at least in part) to console us as the College perforce shared during the same year in yet another serious erosion in value (see Part II) of the total recurrent grant to the universities administered by the University Grants Committee.

Some of our celebrations have set present-day achievements in the context of the past. The plaque graciously unveiled by Her Majesty reads

THIS QUADRANGLE OF UNIVERSITY COLLEGE LONDON
OF WHICH THE FIRST STONE WAS LAID ON 30 APRIL 1827
BY HRH THE DUKE OF SUSSEX
WAS DECLARED TO BE COMPLETE ON 13 NOVEMBER 1985
BY HM QUEEN ELIZABETH II

and the completed Quadrangle's beauty in all seasons of the year has continued to be keenly appreciated by the College's students, staff and visitors. In the meantime, the College Council under the distinguished chairmanship of Sir Peter Matthews held a celebratory dinner after its meeting on 11 February 1986 which happened to be the 160th anniversary of the date (11 February 1826) of the very first meeting of the Council of our institution, an institution which, of course, had initially been designated 'University of London' but was renamed University College London by those three Royal Charters of November 1836 under which also the expression University of London acquired, with the College's full approval, a wider significance. The University as a whole participated in these celebrations, as it had done in those of July 1985 marking the 150th anniversary of The Middlesex Hospital Medical School, with which we shall be legally unified in August 1987, and as it was to participate in a celebration of the 50th anniversary of the Institute of Archaeology (founded in 1936 by Mortimer Wheeler) which took place just after the Institute had assumed a new identity within University College London.

1.2. *The enlarged UCL*

For the enlarged UCL (including all components of the future University College and Middlesex School of Medicine) the overall total of 7,000 full-time students quoted in last year's Annual Report has already been further exceeded. In the meantime academic planning has long been carried out for this enlarged UCL as a complete entity, and in particular, comprehensive academic plans for this were submitted to the UGC (via the University of London) in November 1985. These defined, for the enlarged UCL, the following *single overall objective* (which, it should be emphasised, does not constitute six separate objectives but is a steadfast policy for keeping six complexes, each of exceptional value, within just one compact Bloomsbury campus).

Overall Objective

The College's overall objective is to maintain, within a compact Bloomsbury campus:

(i) powerful coordinated groupings of research workers in the clinical sciences, medical sciences and biological sciences closely integrated with clinical practice and with high-level postgraduate and undergraduate teaching of medical students, dental students and biological-sciences students;

(ii) a massive effort in engineering research and development at the frontiers of technological innovation pursued in an intimate association with industry and in a most productive relationship with advanced engineering instruction;

(iii) large teams active at the forefront of research in the physical and mathematical sciences and providing an outstanding quality of education in these fields;

(iv) a unique focus for archaeological and ancient-world scholarship and teaching utilising incomparable collections and facilities related with a notable network of more modern historical, literary and linguistic studies comprehensively covering Western Europe and the Americas;

(v) a dynamically interacting cluster of centres of excellence in law, economics, anthropology, geography, planning and architecture;

(vi) a famous school devoted to undergraduate and postgraduate teaching in fine art provided by creative artists of exceptional standing.

Needless to say, a contemporary trend is for an institution's overall objective to be subjected to exhaustively critical external scrutiny. In the case of UCL, such scrutiny has concentrated on the question whether, in difficult times, it is realistic to expect to maintain balanced excellence across so wide a field.

The College's strongly affirmative reply to this question is in two parts. First, we simply point out that our established policy is quite specifically selective. We have avoided entering several large areas of study; in the above listing, for example, the 'life science' areas (i) exclude agriculture and veterinary medicine; the 'engineering' areas (ii) exclude aeronautical and nuclear engineering; the 'physical science' areas (iii) exclude materials science; while the arts-based areas (iv), (v) and (vi) exclude Oriental Studies, sociology, politics, theology and music. (Happily, all of the excluded areas are studied elsewhere in the University of London.)

1.3. *The UGC's judgments on our research*

The second part of our reply is objectively based on the UGC's response to the Research Statements submitted in 1985 on behalf of the enlarged UCL. The 1984-85 Annual Report described these statements and gave extended summaries both of Research Statement A (covering the biomedical areas designated (i) in the above listing) and Research Statement B (covering the other areas (ii) to (vi)).

The UGC's response to our Research Statements was framed in terms of a classification of university subjects of study into disciplinary Cost Centres, numbered 1 to 37. Actually, UCL's selective policies have excluded the College from thirteen of these (Cost Centres 3, 6, 7, 8, 12, 13, 19, 24, 25, 28, 32, 33 and 37); and we may note that the other twenty-four Cost Centres (those in which the College is fruitfully active) were defined, and further subdivided, on pages 23 and 33 of the last Annual Report.

A clear indication that the College is successful in pursuing its overall objective of maintaining balanced excellence across a wide field, covering 24 Cost Centres, is given by the fact that the research in 21 of these Cost Centres was judged by the UGC to be 'better than average within the UK'. Nationally, only one in three University Cost Centres were placed in this category.

It is noteworthy too that particular subject areas (Cost Centres or parts of Cost Centres) were 'starred' as outstanding and that the enlarged UCL received a total of 19 'stars'. Both in this respect and in the numbers of disciplinary Cost Centres judged 'better than average within the UK' the UGC ratings placed UCL higher than any other institution outside Oxford and Cambridge. The following table makes this clear, and demonstrates too that in the percentage of Cost Centres rated 'better than average' UCL is by no means outshone by institutions that are more narrowly specialised.

Institution	Number of disciplinary Cost Centres in which Institution is active	Number of Cost Centres in which Institution's research is judged 'better than average'	Per-centage better than average	Number of subject areas (Centres or parts of Centres) starred as outstanding in research
Cambridge	25	23	92	35
Oxford	21	19	90	32
UCL	24	21	87	19
ICST	16	12	75	8
LSE	8	6	75	8
Warwick	15	10	67	7
Bristol	26	17	65	14
UMIST	16	10	62	10
Sussex	16	10	62	10
Manchester	28	16	57	11
York	12	6	50	6
Essex	10	5	50	6
Edinburgh	31	14	45	12
Southampton	27	11	41	7

(Note: This Table only lists institutions active in at least 5 Cost Centres and with research in over 40 per cent of those Cost Centres rated as 'better than average'.)

The UGC ratings demonstrated, then, that the College in these difficult times was indeed maintaining balanced excellence. The ratings showed in detail, furthermore, that our overall objective was being achieved in all six subject areas (i) to (vi), as follows:

(i) It is noteworthy, first, that among all Britain's Medical Schools the UCM School of Medicine was one out of just five whose research work was judged 'better than average' *both* within clinical medicine and in the 'pre-clinical' disciplines. Out of these five (Cambridge, Oxford, UCM, Bristol and St Mary's HMS) the first three received 'stars' for outstanding work in particular disciplines. At UCL, Anatomy and Physiology and Pharmacology were starred. Also, two non-medical life-sciences departments (Psychology and Zoology and Cell Biology) were judged 'better than average'.

(ii) Again, the College's claims to exceptional strength in engineering were powerfully supported by the fact that its four main Departments of Engineering (Chemical and Biochemical, Civil and Municipal, Electronic and Electrical, Mechanical) were all starred as outstanding, while the Faculty's fifth Department (Photogrammetry and Surveying) was judged 'better than average'. The Faculty of Engineering benefited too from the UGC's allocation of Additional Equipment Grant to just eighteen internationally renowned UK research groups in 1984-85 and 1985-86, which included a pair of UCL groups (in Biochemical Engineering and in Electronic Engineering). These incidentally are both groups which have also been enabled by the UGC to expand their teaching activity with the help of earmarked recurrent funding.

(iii) Within the physical and mathematical sciences every one of the six UCL Departments (Physics and Astronomy, Chemistry, Geological Sciences, Mathematics, Statistical Science, Computer Science) was judged 'better than average', and Applied Mathematics was starred as outstanding. During the year, the UGC gave valuable new earmarked recurrent funds to allow expansion of the Department of Computer Science.

(iv) Next, the enlarged UCL humanities complex won a very clear commendation for its carefully coordinated plans in Archaeological and Ancient World Studies when stars were given to Classics and to Archaeology at UCL, and to Archaeology at the (then separate) Institute of Archaeology. More modern studies were also authoritatively endorsed, with stars awarded to English, Italian, Phonetics and

Linguistics, Philosophy, and History of Art and; in addition, German was judged 'better than average'. While, furthermore, the UGC rating system was not applied to certain 'minority' subjects, including Dutch and Scandinavian Studies, the College received special letters praising the excellence of both these Departments and asking for them to be given special protection.

(v) The College's claim to possess 'a dynamically interacting cluster of centres of excellence' in legal, environmental, economic and social studies was comprehensively vindicated when four of the Departments concerned (Anthropology, Geography, Laws and the Bartlett School of Architecture and Planning) were starred as outstanding and the fifth (Economics) was judged 'better than average'.

(vi) Finally, although the UGC rating system awarded absolutely no star in studio art to any university (and, of course, teachers of studio art are not researchers but creative artists), nevertheless UCL's distinguished Slade School was one of only two British University departments rated as 'better than average' in this important discipline.

1.4. *Some other accolades*

Supplementing these encouraging UGC assessments, other wide ranging external recognition given to research at UCL during the year included accolades from the Royal Society and the British Academy. Soon after a generous benefaction by Smith Kline and French had led to the endowment of the SKF Chair of Medicinal Chemistry in the UCL Chemistry Department and the appointment of Dr C. Robin Ganellin to it, he was elected FRS; simultaneously, the Royal Society elected to its Fellowship Professor Geoffrey Burnstock, Head of the UCL Department of Anatomy and Embryology. This last Department was further honoured when the Royal Society, seeking a new incumbent of its specially distinguished Foulerton Research Professorship (left vacant after the resignation from UCL of Professor Ricardo Miledi), came once more to UCL and appointed an outstanding development neurobiologist from that Department, Professor Anne E. Warner, FRS.

During the same year the powerful new UCL grouping in Archaeological and Ancient World Studies was given additional encouragement from elections to Fellowship of the British Academy which included Professor John J. Wilkes, Head of the Department of Archaeology of the Roman Provinces within the Institute of Archaeology, and Professor Herwig G. Maehler, UCL's Professor of Papyrology. These elections together with

the arrival of Professor Michael H. Crawford, FBA, as UCL's new Professor of Ancient History bring to a total of eight the number of Fellows of the British Academy participating in the scholarly work of this highly promising UCL grouping.

The national importance of all of the British Academy's work for maintenance of excellence (especially in humanistic studies) was emphasised by the Academy's President, our own Emeritus Professor Sir Randolph Quirk, in his fine address to the 1986 Assembly of Faculties. This followed a talk of generally similar orientation and high quality to the 1985 Assembly of Faculties by the then President of the Royal Society, Sir Andrew Huxley, another of 'our own' Emeritus Professors.

There are also indications of the College's research excellence from financial data. Specifically, those numerous external bodies (Research Councils, charitable foundations, Government Departments and industrial companies) which give financial support to the College's research work demonstrated collectively their continued confidence in its outstanding quality during 1985-86 through an increase of more than 20 per cent (far above the rate of inflation) in the total value of reseach grants and contracts awarded; this total is shown by the accounts for UCL proper given in this Annual Report to have risen to £17,011,313 in 1985-86 from a corresponding figure of £13,992,964 in 1984-85.

A particular capital benefaction aimed at expanding space for outstanding research groups in Electronic Engineering is worthy of particular mention. Work has now begun on adding yet another floor (making fourteen in all) to the main Engineering building in Malet Place and this was made possible by a most generous donation of £1,250,000 from the General Electric Company.

Needless to say, all of the above emphasis on various modes of recognition of the staff's research excellence must not be allowed to take credit away from the same staff's teaching gifts or from the fine achievements of UCL's excellent students, working in the favourable environment offered by Departments where dedicated teaching work interacts most fruitfully with research work of high quality. One simple statistic shows the benefits of this combination to have been further maintained, and even enhanced, in the past academic year: out of the new UCL Bachelors of Arts or Science in 1986 the percentage winning either First Class Honours or Second Class Division One reached 50 per cent for the first time, having fluctuated between 45 per cent and 47 per cent through the previous ten years.

These are exceptionally high percentages of graduates winning such fine examination results. The fact that they have been achieved at a College

which does not set exceptionally high academic qualifications for entry is a credit to both staff and students.

The College's Careers Advisory Group, presided over by our distinguished Vice-Chairman of Council, Sir James Hamilton, has received detailed evidence of how a student's prospects for gaining satisfactory employment are strikingly enhanced as a result of following degree courses such as are available at UCL. We thank the Group most warmly for valuable advice on how to improve those prospects still further.

2. PLANNING THE BLOOMSBURY CAMPUS

2.1. *Library Developments*

In parallel with that 1985 completion of the Quadrangle which Her Majesty's visit celebrated (a completion achieved, as earlier Annual Reports have described, without any recourse to public funds) the College has been continuously active in planning such further improvements to the Bloomsbury campus as are both vitally necessary to the effective working of the enlarged UCL but also achievable at a time of greatly diminished availability of capital from UGC sources. It is a pleasure to report first on a number of developments for general College purposes (including Library purposes, student amenity purposes and the long established UCL objective of increasingly cost-effective resource sharing with Birkbeck College) and then to outline progress to date on the challenging task of physically restructuring the University College and Middlesex School of Medicine.

All our planning is perforce based on the recognition that, even though needs on the scale of the enlarged UCL may seem to cry out for massive new buildings, financial support can be won today only for schemes aimed at meeting those needs at more modest cost through adaptations (or, very occasionally, minor extensions) of existing buildings. For example, the ambitious plans that had been fruitlessly pursued throughout the 1970s to rebuild the entire Library of UCL on a single site were rightly abandoned in the 1980s in favour of the practically attainable goal of adapting existing buildings to achieve the best arrangements possible within separate Arts and Science Libraries.

It proved feasible to combine this goal with an important rationalisation of function among the different Bloomsbury libraries of the University of London. With University support, the DMS Watson Building in the southern part of the UCL Rectangle was adapted so as to house the new Bloomsbury Science Library, serving not only such extensive areas of UCL

as the Faculties of Science, Engineering and Medical Sciences but also widespread science-based users from all of the University's Bloomsbury institutions, especially Birkbeck College (which also shares with UCL a nearby book storehouse, provided by the University). Opening hours were extended to meet the special needs of Birkbeck students.

Simultaneously, library space in the original Wilkins Building of UCL was adapted as the College's main Arts Library, serving another huge community of users including particularly our Faculties of Arts and Laws. The UCL library staff are to be congratulated on having achieved an ideal rearrangement of material between the two libraries with most remarkable speed in the so-called Great Summer Move of 1985.

Next, the University's acquisition and refurbishment of Gordon House (situated in Gordon Street between the Institute of Archaeology and the Christopher Ingold Laboratories) not only provided office space for the Birkbeck Department of Chemistry, so facilitating its shared use of the Ingold Laboratories for teaching and research with UCL chemists, but also admirably rehoused the UCL Departments of Latin and Greek. The former 'Classics corridor' in the Wilkins Building (southern part of the second floor) could then become a much needed extension of the new Arts Library. A special Court grant is now allowing this space to be adapted as the site where the UCL History Library (until now uneconomically separated from the main Library) and the Library of the Royal Historical Society (at present in the DMS Watson Building) can be unified most beneficially and with the wholehearted agreement of all concerned.

In the meantime, an admirable initiative by the College Art Collections Committee under the chairmanship of Professor White won generous charitable donations to cover the entire cost of an imaginative scheme for giving the new Arts Library a most beautiful central focus. This consists of a redecorated Flaxman Gallery, with Flaxman's casts meticulously restored and Tonks's famous 'Four Founders' picture assuming once more its originally designed location in a brilliantly refurbished Dome.

Library improvements at UCL are by no means at an end. We welcome UGC indications of possible increased funding for purchases of books and periodicals and for the introduction of new automated systems. In the meantime we are studying how to follow up rationalisation of provision in the Arts Library and the Bloomsbury Science Library by improved Library arrangements for the extended Faculty of Clinical Sciences of the UCM School of Medicine.

2.2. *Student needs*

Over far too many years our College's admirable student body has suffered from a grave inadequacy of Union accommodation for clubs and societies and general social activity, and the problem becomes more and more severe as the College grows larger. Yet this is another area of need where important improvements have perhaps been held up in the past through an excessive concentration on attempts to meet that need with a massive new building. In particular, the estimated cost of the admittedly excellent Norman Foster design for a new Union building, which was adopted as one of the four objectives of our 150th Anniversary Appeal, was enormously greater than the amount which it proved possible for the Appeal to draw in.

When finally the College had to accept it as realistic to close the Appeal with just two of the Appeal projects completed, the Council considered it essential to find funds to give partial help towards meeting the objectives of the other two projects. Specifically, a number of major refurbishments of student amenity areas in the Central Collegiate Building were undertaken with support from College Fund and from an anonymous benefaction by an Old Student, while, for the Department of Egyptology a similar combination of College funding and charitable funding allowed the Edwards Library and Petrie Museum to be brought up to good standard for the permanent preservation and scholarly utilisation of these important collections.

At the same time, the College is looking very closely indeed at some further ways of improving the space available for student amenity purposes. High priority is attached to student accommodation: the current work to extend Ramsay Hall (funded in part by the Anonymous Donor's generosity and in part by the Student Accommodation account) will provide 71 new study-bedrooms together with good communal areas. Student accommodation, provided either by UCL itself or by the University of London as a whole, has become ever more vitally important as student grant increases have lagged still further behind increases in the cost of privately rented accommodation. The College's plans for its next important increase of student accommodation are centred upon a refurbishment of the old Gower Street Hostel (nos 119-131 Gower Street) of the former UCHMS. In the meantime, an extremely popular major improvement of Refectory facilities was funded by a College loan to the Refectory account which is being rapidly repaid through the large amount of extra business it has generated.

2.3. *Further development of resource sharing with Birkbeck College*

Court funding valuably supported the University rationalisation of Geology by helping to create the additional laboratory space necessary for the teaching and research of UCL's large new Department of Geological Sciences through adaptations in the lower part of the Kathleen Lonsdale Building. These and other developments have now made it possible for UCL and Birkbeck College jointly to investigate the possibility of having the use of these laboratories shared between the Geology Departments of the two Colleges on the model which, as already noted, is in use for Chemistry.

History of Art is another very important discipline where juxtaposition of the Birkbeck Department (under the Headship of Professor Vaughan, formerly Reader at UCL) and the UCL Department (under Professor White) is progressively being brought about, with important resulting benefits in the sharing of the two Departments' resources, among them their outstanding slide collections. The University is being asked to help accelerate this progress of co-location of the two Departments on the East side of Gordon Square by making further space available as quickly as possible; the space in the Pearson Building, being given up by the UCL Department of History of Art, has been allocated to the rapidly expanding Department of Computer Science.

Beyond those four aspects of resource sharing between Birkbeck College and UCL which have been highlighted in this Foreword (in the Library area as well as in Chemistry, Geology and History of Art), sharing in the same general spirit is effective too in many other fields and is constantly being further developed. The two Colleges are also in complete accord in maintaining complementary policies on Continuing Education, UCL's emphasis being placed on advanced post-experience vocational education in particular professional fields such as Medicine, Engineering, Architecture and Laws and Birkbeck concentrating on high-level part-time postgraduate and undergraduate education offered (especially in the evening) across a wide range of the Arts and the Sciences.

2.4. *Physical restructuring of the UCM School of Medicine*

In December 1985 a whole-day visit to the University College and Middlesex School of Medicine by the UGC Medical Sub-Committee allowed the School of Medicine to describe the detailed plans for unification which had been formulated in the eighteen months since the Joint School's five components (The Middlesex Hospital Medical School, the UCL School of Medicine and the postgraduate Institutes of Laryngology

and Otology, Orthopaedics, and Urology) had taken the decision to form a new Single School of Medicine within UCL. Our presentation included many matters which readers of pages 9 to 23 of the College's 1984-85 Annual Report will recall: we described the agreed administrative structure (based on recommendations by the Unification Sub-Committee) together with a comprehensive analysis of the UCM School's outstanding research strengths. Next we outlined to the Sub-Committees the lengthy sequence of processes by which we had moved forward to key decisions on the most cost-effective and academically effective approaches to the teaching of our students, including the optimum siting for each of our Departments after nearly all of them have become physically united.

We explained how these processes had led us finally to our master plan, for major pathology departments to be concentrated on the Middlesex site (a concentration of pathology, that is, on both the academic and the National Health Service sides — with major recurrent savings to both), and for all pre-clinical teaching departments to be physically unified on the University College site. We next explained our intensely compressed timetable for this physical unification of Departments, in part facilitated by the availability of pump-priming money from charitable bodies, yet also needing substantial injections of capital from UGC.

Since then we have received the University Grants Committee's response. First, they gave most powerful support to the School's established medical-student intake of 195 *per annum*, allocating to us the capital funds needed immediately for the big new Dissection Room development which that large intake demands, while also looking forward to further injections of UGC capital. Secondly, they supplemented this endorsement of our teaching plans with those research judgments described above (section 1.3) which grouped us among a handful of the country's most outstanding medical schools.

Excellent progress on implementation of the master plan for physical restructuring of the UCM School of Medicine has since been made. That internationally noted charitable organisation, the Ludwig Institute for Cancer Research, attracted by the School's oncological and immunological research strengths, decided to acquire for a seven-figure premium a 30-year lease on part of the Courtauld Building on the Middlesex site. This they are refurbishing for occupation by a large and impressive research group under the direction of Dr Michael Waterfield, while two excellent oncological research groups from University College under Dr Peter Beverley and Dr Robert Souhami will occupy the rest of the Courtauld Building so as to form on the Middlesex site, with the distinguished Department of Ontology under the Headship of Professor Roger Berry, a centre of exceptional importance for cancer research.

In the meantime a marvellously generous benefaction from the Sir Jules Thorn Charitable Trust (also a seven-figure sum) has given superb assistance to the School, in a happy combination with the Ludwig Institute's premium payment and with support from trust funds under the School's control, to finance several major projects for unification of academic departments. These involved Obstetrics and Gynaecology being unified in Chenies Mews on the University College site, and Chemical Pathology in the Windeyer Building on the Middlesex site together with certain research units in Biochemistry, while the rest of Biochemistry (including all Biochemistry teaching) is being unified in the Darwin Building on the University College site. Pharmacology is also acquiring unified premises centred on its existing University College space, and the School's unified Departments of Physiology and of Anatomy will each occupy extended premises consisting of approximately their existing space on the UCL Rectangle together with a share of the Faculty of Clinical Sciences Building on the opposite side of Gower Street.

Progressively, as Bloomsbury Health Authority, with the full support of the School, completes its plans to concentrate on the Middlesex site the combined service and academic pathology departments (not only of Chemical Pathology but also of Histopathology and Medical Microbiology), the whole of the Faculty of Clinical Sciences Building will become a centre for teaching and research in Anatomy and Physiology. A fourth pathology department, on the other hand (the Department of Haematology), will be concentrated on the UCH site; and Community Medicine has already been unified on the University College site in the upper floors of 66-72 Gower Street.

In the meantime, the academic Department of Psychiatry has been fully concentrated on the Middlesex site, in the Wolfson Bulding. This leaves vacant nos 115 and 117 Gower Street which are ideally suited for development as the administrative headquarters of the UCM School of Medicine. A powerful case is being made for UGC/Court funds to meet the refurbishment costs necessary for this vitally important next step in the development of the School, and the process of clarifying the sources of funds essential for all projects needed to gain the full potential benefits from medical rationalisation in Bloomsbury will continue.

Out of all the preparatory work that must precede legal unification of the UCM School of Medicine on 1 August 1987, just one aspect has been highlighted in this Foreword to the 1985-86 Annual Report: the Medical School's physical restructuring on its main Bloomsbury campus. This, needless to say, interacts intimately with all the other aspects of planning for the Bloomsbury campus of the enlarged UCL that have been outlined in

the preceding sections. (See pages 33-38 of the present Report for a wider perspective of developments of the medical School not only on the Bloomsbury campus but also at the postgraduate hospitals and at the Whittington Hospital of the Islington Health Authority.)

PART II. FURTHER EROSION IN VALUE OF UGC GRANTS TO UNIVERSITIES

(Note: this is a reprint of my article published by the UCL *Bulletin* in its first issue of the academic year 1986-87 under the title 'The 1986-87 Court Grant'.)

It was towards the end of May 1986 that newspaper readers up and down the country were scrutinising lists of universities receiving different percentage changes in their UGC grant from 1985-86 to 1986-87. A select quartet of universities (Warwick, Bath, York and Southampton) had received increases of between 4 per cent and 3 per cent with an accompanying quartet (Bristol, Sussex, Kent and Loughborough) receiving between 3 per cent and 2 per cent. The University of London had appeared in the middle of the next dozen universities, awarded increases of between 2 per cent and 1 per cent. A fractionally larger group including Cambridge and Oxford had received increases between 1 per cent and 0 per cent while another group, slightly bigger again, suffered actual decreases of up to 0.5 per cent.

Fortunately, the Committee of Vice-Chancellors and Principals took immediate action to point out that, however such announcements might appear to casual readers, this had been a process in which there were no winners. Indeed, since inescapable inflation of academic costs was running at over 5 per cent, every single university grant had been cut in real terms. So much for the earlier misleading prophecies that selective distribution of funds would place certain institutions 'on an up-escalator'.

Nevertheless, the UGC with a gravely reduced level of funds at its disposal had awarded those funds selectively using a completely new 'formula' approach for this purpose. Abandoning the archaic doctrine of 'unit cost' (total university cost divided by numbers of students taught) which erroneously presupposes that universities are engaged exclusively in teaching, the new formula accepts explicitly that university resources are needed both for teaching and research. For any given subject area it allocates teaching resources in a fixed proportion to the number of home students agreed by the UGC for planning purposes within each particular institution. Total teaching resources for the institution as a whole form, as might be expected, the biggest part of its total resource; yet the main other part, related to research needs, is also substantial for an institution that is extremely active in research (and there are, too, some 'special' additions, of which for the metropolis the most important is London Allowance).

The research resource has been allocated through rather refined investigations, some being qualitative and based on those UGC judgements on research about which I reported in Part I, and some quantitative. About 15 per cent of the total funds available for the British university system was, we understand, allocated in relation to the judgements on research. The quantitative elements in research resource allocation have included 'a 40 per cent overhead charge' on grants from research councils and charitable bodies, a very much smaller supplement to research contract income and a quite important element related to numbers of research students (including both home and overseas students).

Within the University of London a big part of the resource distribution has effectively been pre-determined by the UGC through its allocation of home student numbers for planning purposes in each subject group among the different Colleges and Schools. At UCL we were gratified to receive an overall increase in planning numbers by 156 above existing targets (55 per cent of the increase we had asked for) in addition to the increase by 80 in Electronic and Electrical Engineering derived from the Government's special Engineering and Technology scheme. The Court of the University announced that it was accepting these planning numbers for the distribution of teaching resource and that it would closely follow the UGC system in relation to the distribution of research resource.

Nevertheless, we at UCL awaited the results of this process in anxious uncertainty as to whether our classic difficulty of appearing to be over-resourced according to the archaic concept of 'unit cost' would disappear in the face of the UGC's methodology for determining research resources (together with our favourable allocation of planning numbers). Finally the Court letter of 9 July announcing the distribution of London University's share of the UGC grant resolved this issue in the affirmative, placing UCL in the relatively favourable position of a 2.7 per cent increase in cash terms over 'comparable' figures for 1985-86.

It is worth noting that this percentage increase of 2.7 per cent was the same as for Bristol, which stood fifth in the list (of all the different universities of Britain) referred to in the beginning of this article. Thus, our relative position for UGC grant allocation purposes has benefited somewhat through adoption of the 'formula' system. (In parenthesis we may note without giving details an essentially similar position for those sister institutions that are in the process of uniting with UCL.)

And now, having summarised our relative position, the UCL Provost is obliged to give his readers a depressing yet most important message, similar to that given by the Committee of Vice-Chancellors and Principals to newspaper readers in general, about the cuts in the real value of our grant

that we have suffered. The position in real terms is that our recurrent grant has been cut severely, both for the reason which applies to all universities (inescapable inflation of academic costs running at over 5 per cent) and for a second reason applying only in London.

This second reason is that the Court of the University of London has for some time augmented the UGC's grant to the University with certain limited monies of non-UGC origin which the Court had at its disposal, but in 1986-87 the scope for such augmentation is gravely reduced. This unfortunate fact produces in effect an additional cut in real terms of 1.1 per cent in UCL's recurrent grant as between 1985-86 and 1986-87, a cut which would rise further to 1.9 per cent if the Court were to put into immediate effect its plan to abolish the hitherto greatly prized Supplementary Maintenance grant payable when a College occupies new premises. In that case our recurrent grant from the Court in cash terms would have risen, not by 2.7 per cent but by 0.8 per cent, less than the average of 1 per cent for the university system as a whole.

Against the background of these regrettable facts, we are now compelled to budget for a cut in real terms of at least 4 per cent. What does this mean for UCL as a whole?

First of all, it means it is imperitive that every single area of the College meet its New Earnings/Savings Target (NEST) in the present academic year 1986-87. This target can be met either by New Earnings or by New Savings or by a combination of both. At present each Head of Department is working actively to ensure that the departmental NEST is achieved and I know that I can rely on members of every department to give the Head their full co-operation in this vitally necessary work.

It is, I believe, widely recognised that the significant increase in numbers of well qualified overseas students in 1986-87 is proving to be an important contribution towards our overall achievement of NEST. All of them help through the fees they pay, while some (the overseas research students) additionally help, as already noted, to maintain the College's grant from UGC sources.

The position in 1987-88 will continue to be very uncertain until the fate of the DES bid to the Treasury aimed at securing truly 'level funding' for the universities becomes known. However, UCL's Finance Committee has made an analysis confirming that a further increase in intake of overseas students (without reduction in home student numbers) will unquestionably be essential for 1987-88 if the academic strength of the College is to be maintained. The co-operation of members of the College generally in this process continues to be most warmly appreciated.

Visit by Her Majesty The Queen — 13 November 1985

The College was greatly honoured by the visit of Her Majesty The Queen on 13 November 1985 to celebrate the formal completion of the Quadrangle and the opening of the new extensions at the front entrance. The Queen arrived at the Portico steps where, having been received by the Mayor and Mayoress of Camden, Councillor Julian Fulbrook and Dr Mary Fulbrook, she was met by the Chairman of the Council, Sir Peter Matthews, the Provost, Sir James Lighthill, and the Secretary of the College, Major-General I. H. Baker. Her Majesty had presented to her the College Visitor, Sir John Donaldson, Master of the Rolls, the Vice-Chancellor of the University of London, The Right Hon The Lord Flowers, and the Parliamentary Under-Secretary of State for Education and Science, The Honourable Peter Brooke MP.

Her Majesty, who was accompanied by Lady Abel Smith, Lady-in-Waiting, and Mr Robert Fellowes, Assistant Private Secretary, walked to the entrance to the South Extension and had presented to her Sir James Hamilton, Vice-Chairman of the Council, Professor D. V. I. Fairweather, Vice-Provost, and Professor J. E. C. T. White, Vice-Provost. In the South Extension Her Majesty visited first the new College Reception Room, the Friends' Room, which had been furnished by a generous donation from the Friends of UCL. In the Friends' Room Professor D. W. James, Director of the 150th Anniversary Appeal, Professor I. A. Harley, Dean of the Faculty of Engineering, Mr J. W. Arterton, Registrar, and Mr E. Williamson, Bursar, were presented.

In the Department of Civil and Municipal Engineering The Queen was met by Professor K. J. Ives, Head of the Department. Her Majesty visited a class in progress and then saw some of the Department's research illustrating the breadth of the Department's activities.

In the North Extension Professor R. J. Audley, Dean of the Faculty of Science, Mr H. M. Priestley, Treasurer, Mr D. V. Bowles, Finance Secretary and Accountant, and Dr A. K. Huggins, Senior Assistant Secretary, were presented to Her Majesty. At the first floor Her Majesty was met by Professor A. P. Dawid, Head of the Department of Statistical Science, and saw some of the Department's areas of research as well as meeting members of the Department and visiting a departmental seminar.

On leaving the Department of Statistical Science, Her Majesty walked across the Quadrangle and mounted the Portico steps to enter the Donaldson Library, where the National Anthem was played by the string

orchestra of the Scots Guards. With an audience of some 180 guests, The Queen listened to the welcoming speech given by the Provost who said:

"Your Majesty, my Lords, Ladies and Gentlemen, University College London esteems profoundly the high honour bestowed on us by Your Majesty's gracious visit, marking a moment when we feel we are completing the work of pioneers who developed our College; completing it both in a visible sense and, perhaps, in other ways. It all began from the determination of Thomas Campbell and Isaac Goldsmid and others that England in her capital city (in your capital city, Ma'am) needed a university; the original University of London, built here, which ten years later was to be renamed University College London after the expression University of London had acquired (with our agreement!) a wider meaning. Our founders espoused the reforming doctrine, that universities should be open institutions encompassing wide ranges of modern studies and interacting with everything at the heart of a nation's life.

The first stone of this building was laid on 30 April 1827 by His Royal Highness The Duke of Sussex, uncle to Your Majesty's great-great-grandmother Queen Victoria, and a distinguished friend to liberal causes and patron of the sciences. 'The day' we are told, 'was delightful, and the ceremony drew an immense crowd to the spot'.

Meanwhile our objectives were being enshrined, as in these words: 'By formation of a University in this metropolis the useful intercourse of theory with active life will be facilitated'; words drafted by a group including Henry Brougham, George Grote and James Hill. In that spirit, our now completed Quadrangle is open to the outside world.

Our earliest architect William Wilkins (responsible too for the National Gallery) designed this magnificent East Side of the Quadrangle; in which our first architectural Professor incorporated this beautiful Library. His successor added the Quadrangle's South and North Wings in the 1870s, and these were partially extended inwards between 1893 and 1923, when they reached that still uncompleted form which your grandparents, Their Majesties King George V and Queen Mary, inspected at our Centenary Celebration in 1927. Thereafter the same unfinished appearance persisted until 1983, when completion commenced to Sir Hugh Casson's inspired conception, refined into a brilliant detailed design by Stuart Taylor.

No public money was spent on building either the unfinished Quadrangle as it was at our Centenary or Casson's final beautiful pavilions for advanced developments in Science and Engineering. In fact, after our 150th Anniversary celebrations had been inaugurated by the University's then Chancellor, Her Majesty Queen Elizabeth The Queen Mother, we

prepared meticulously a 150th Anniversary Appeal, launched in 1981 in the presence of our new Chancellor, Her Royal Highness Princess Anne. The devotion of our Appeal Committee, and of the Appeal Director and his staff, and the warmhearted generosity of innumerable donors, raised an enormous sum; and this was added to when, following our founders' views on 'the useful intercourse of theory with active life', we welcomed to another area of the College a fine industrial research laboratory in an arrangement which yielded both academic benefits through collaboration and a massive augmentation to the Appeal Fund.

Now our complete Quadrangle happily houses some Engineering and Science and the Slade School and Art History, and gifted administrators and a superb Humanities Library. Yet, Ma'am, there is a further sense of completeness from our realisation that the College now, within its entire campus here in Bloomsbury, stands solidly (in a posture of which our founders would have approved) on equal pinnacles of strength in the Arts, Laws and Architecture, and in the Sciences, Engineering and Medicine; having achieved this through many new initiatives, including within Medicine that happy unification, the University College and Middlesex School of Medicine, which had unsuccessfully been attempted by our founders and thereafter fitfully glimpsed over the years as a tantalising possibility. In recent times many far-seeing people felt convinced that our neighbouring medical schools at University College and The Middlesex should come together, just as other far-seeing people recognised that our Quadrangle must at last be made complete. Now all of it has happened and Your Majesty's gracious presence in our midst, to declare this completeness, symbolically crowns our joyful awareness of 158 years of achievement at University College London."

The Queen then graciously addressed the assembly and said:

"Thank you, Provost, for those very kind words of welcome.

I confess that, sometimes, when I lay a foundation stone I am prey to faint worries about when, or even whether, the building will be finished. I wonder if, on that April afternoon in 1827 when he laid the first stone here, The Duke of Sussex had those same worries. Even if he did I doubt, if he would have guessed that it would be his great-great-grand-niece, 158 years later, who would see the end of the process he began. I am delighted at the success of the appeal which has enabled you to finish the work of your predecessors, and equally delighted to be here for this occasion — I much admire the new Gower Street extension, which I have just visited.

Over the years my family have been frequent visitors to University College. In 1927, when King George V and Queen Mary inaugurated your

The Chairman of the Council, Sir Peter Matthews, meets Her Majesty The Queen.

Miss Anthea Blake, Senior Nursing Officer is presented to Her Majesty.
Visit of Her Majesty The Queen to the College on 13th November 1985.

Centenary celebration, The King found time to make trenchant comments on the subjects of State Aid to Students and of Cubism. I shall not, I have to tell you, be following my grandfather's example today.

More recently with my mother and daughter as successive Chancellors of the University, the family connection has still been very much in evidence.

The College, meanwhile, has gone from strength to strength. You must be proud that in this year of all years there have been academic achievements to match those of the past, and 6 members of the College have been elected to the Royal Society. Lectureships have been won in a wide variety of disciplines, proving, if proof were still needed, your scholastic strength in depth.

I congratulate you on the triumphs of the past, and wish you well for still more in the future. But not everyone can be in the first flight, and it will be all at the College, staff and students alike, who will walk through the Portico under the stone which I shall, in a moment, unveil. The stone proclaims that the Quadrangle is complete. Everyone here knows that the process of learning is never complete. University College has always been in the forefront of the world of innovative thought and research. I hope your fine new buildings will help to keep it there."

Her Majesty moved to the top of the Portico steps and unveiled the commemorative stone, which records the laying of the first stone on 30 April 1827 by His Royal Highness The Duke of Sussex and the declaring of the Quadrangle to be complete by Her Majesty.

The Queen visited a display of some of the College archives in the Flaxman Gallery before viewing in the Upper Hall five departmental exhibitions representing the Faculties of Arts, Laws, Environmental Studies, Medical Sciences and Clinical Sciences. On entering the upper Hall, where the Exhibitions were laid out, Her Majesty was met by Professor M. M. Willcock, Dean of the Faculty of Arts. At the departmental exhibitions, Her Majesty met the Heads of Departments, lecturers and students from the Departments involved and by the Dean of the Faculty concerned.

Her Majesty moved to a Reception in the Upper Hall where members of the College and guests were presented. The many distinguished guests present included Lord Annan, Lady Flowers, Lord Rayne, Professor Sir James Black, Sir Colin Crowe, Lady Lighthill, Lady Matthews, Sir Henry Phillips, Sir Randolph and Lady Quirk, Sir Francis Sandilands, Sir Arthur Snelling, Sir Bernard Waley-Cohen Bt, Professor Sir Frederick Warner and Dame Albertine Winner. The Queen moved freely among representative

members of the College invited to the Reception and spent some time discussing College affairs with a group of students.

The Queen walked along the North Cloisters speaking informally to members of the College. Her Majesty viewed the College Permanent Exhibition, which was explained to her by Professor J. E. C. T. White, Vice-Provost, and signed the Visitors' Book. The Provost presented Her Majesty with a copy of the College History by Harte and North, specially bound in leather by Mr Brian Anderson and illustrated by Miss Lella Raymond, and a print of the College. Her Majesty graciously signed a picture of herself, which now hangs in the Friends' Room.

The weather was fine and many members of the College and their families watched The Queen's visit from the Quadrangle and in the cloisters. Her Majesty departed at 4.35 p.m. after what had been a delightful occasion for the whole College.

Her Majesty's thanks to the College were passed by Mr Robert Fellowes in a letter to the Provost dated 13 November and appended below:

BUCKINGHAM PALACE

13th November 1985

Dear Sir James,

I write at The Queen's command to thank you for your hospitality at University College today. Her Majesty greatly enjoyed her afternoon with you, and much appreciated the welcome given to her by the staff and students whom she had the opportunity to meet.

The organisation of an intricate programme such as today must, The Queen knows, have been a lengthy and complicated process. The fact that it all went so smoothly was great credit to you and General Baker.

The Queen would be most grateful if you would ensure that her thanks are passed also to those who took part in, and explained, the interesting lectures and demonstrations which she visited in the new extension. These were most successful, as were the departmental exhibitions in the Upper Hall. Most important of all was the happy atmosphere throughout the College on a day which you had rightly decided was one for celebration.

Finally, The Queen asked me to thank you most warmly for the beautifully bound history of University College and for the charming print. These were generous and well chosen gifts and will be much treasured by Her Majesty.

Yours sincerely,

Robert Fellowes

Her Royal Highness The Princess Anne meets Professor D. V. I. Fairweather, Vice-Provost

The Chancellor is presented with a print of University College London by the Provost on he departure.

Visit of Her Royal Highness The Princess Anne,
Chancellor of the University of London — 10 February 1986

Her Royal Highness The Princess Anne, Mrs Mark Phillips, Chancellor of the University of London, visited the College's premises at the Whittington Hospital on 10 February 1986. Her Royal Highness, arrived at the Whittington Hospital at 2.15 p.m. After being received by the Mayor of Islington, Councillor Marjorie Ogilvy-Webb, and the Vice-Chancellor of the University of London, The Right Hon. The Lord Flowers, the Chancellor visited the Unit for Endocrinology and Diabetes. Her Royal Highness met on arrival at the Unit, the Dean of the Faculty of Clinical Sciences, Dr P. J. Verrill, and the Dean of The Middlesex Hospital Medical School, Mr W. W. Slack. Her Royal Highness met Doctors P. J. A. Moult and J. S. Yudkin, Senior Clinical Lecturers in the Unit, who conducted her round the laboratories in the new Endocrinology and Diabetes Unit. The Chancellor met staff and students in the laboratories and at the conclusion of this part of the visit unveiled a plaque after a short welcoming speech by the Provost. The plaque formally declared the new Endocrinology and Diabetes Unit open. Her Royal Highness visited the associated ward in the Whittington Hospital and at the conclusion of that visit declared the ward open. The final part of Her Royal Highness's visit involved staff and students of the College and The Middlesex Hospital Medical School, together with staff of the Whittington Hospital in a short reception during which Her Royal Highness met the Academic Trustees of the Whittington Hospital, headed by Dr B. I. Hoffbrand, Chairman of the Academic Trustees, and including Professor D. W. James. At the conclusion of the visit the Provost presented the Chancellor with a framed print of University College London and the Chancellor signed the Visitors' Book.

This was a particularly enjoyable visit and Her Royal Highness discussed the many medical and academic issues that arose with great interest. The occasion was also significant for the emerging University College and Middlesex School of Medicine, highlighting the importance of the Whittington Hospital in the clinical training of our medical students. At the same time it demonstrated to the Chancellor the joint nature of the clinical course undertaken by the students.

Visit of Her Royal Highness The Princess Anne, Chancellor of the University of London, to the Joint School of Medicine at Whittington Hospital on 10th February 1986.

Visit of the Secretary of State for Education and Science — 30 October 1985

The Secretary of State for Education and Science, Sir Keith Joseph, PC, MP, paid a visit to the College on 30 October 1985. Sir Keith's visit was centred entirely on the Faculty of Engineering and the arrangements made by the College were designed to illustrate the breadth and success of a number of key areas of research within the Faculty of Engineering and to highlight our close links with industry both overseas and in the United Kingdom.

Sir Keith visited the Department of Electronic and Electrical Engineering in the company of Professor D. E. N. Davies, FRS, Head of the Department. The Secretary of State met Professor J. E. Midwinter, FRS and members of his Integrated Circuit Design Centre Group. He went on to visit the Department of Mechanical Engineering, and, after a briefing by Professor T. H. Lambert, Head of the Department, saw some of the research being carried out by the London Centre for Marine Technology, where he met Professors W. D. Dover and W. R. Eatock Taylor and Dr S. R. Montgomery. Finally, the Secretary of State visited the Department of Chemical and Biochemical Engineering and was briefed by Professor J. W. Mullin, Vice-Provost and Head of the Department. Sir Keith also saw Professor M. D. Lilly's Biochemical Engineering Group.

There can be no doubt that this was a most successful visit and Sir Keith Joseph commented very favourably both on the quality of the College's research and on its continued close collaboration with industry in major research projects. He expressed surprise at the level of outside funding achieved by the Faculty of Engineering, which was 141 per cent of the UGC recurrent grant allocated to the Faculty.

Visit of the Parliamentary Under-Secretary of State for Education and Science — 14 May 1986

The College was visited by Mr George Walden, CMG, MP, Parliamentary Under-Secretary of State for Education and Science, on 14 May 1986. Mr Walden met Professor J. E. C. T. White, Vice-Provost and Professor M. M. Willcock, Dean of the Faculty of Arts, and was given a short initial briefing in the Provost's office.

The Parliamentary Under-Secretary of State moved to the Department of Geography, where he was met by Professor R. U. Cooke, Head of Department. Mr Walden's tour of the Department lasted for an hour and during this time he met a wide cross-section of staff and students and saw much of the major research being carried out by the Department.

The Parliamentary Under-Secretary of State went on to visit the Institute of Archaeology, where he was met by the Director, Professor J. D. Evans, FBA. In seeing some of the key work of the Institute, Mr Walden was briefed on the merger with the College which was at that time within three months of being completed. Links with a number of Departments in University College London were stressed during the visit and an opportunity was taken of meeting both staff and students.

There followed a visit to the Departments of Latin and Greek which was conducted by Professor M. M. Willcock, Head of the Department of Latin and Dean of the Faculty of Arts. During this time Mr Walden saw displays on Egyptology and Papyrology. The tour of the College was concluded by a visit to the Flaxman Gallery and the Library where the Parliamentary Under-Secretary of State was met by the Librarian, Mr F. J. Friend.

A luncheon followed, during which Mr Walden took the opportunity to say how much he had gained by visiting the Faculty of Arts. The College was at pains to stress the importance of Arts at a time when so much emphasis is being placed upon the development of Science and Engineering.

Visit of the Chairman of the Science and Engineering Research Council — 5 March 1986

On 5 March 1986 the College was visited by Professor E. W. J. Mitchell, CBE, Chairman of the Science and Engineering Research Council.

Professor Mitchell was met by the Provost and the Secretary of the College and saw parts of both the Faculty of Engineering and the Faculty of Science. He was briefed on the work of the Faculty of Engineering by Professor I. A. Harley, the Dean, and he visited the Departments of Electronic and Electrical Engineering, Mechanical Engineering, and Chemical and Biochemical Engineering. Professor Mitchell was briefed on the Faculty of Science by Professor R. J. Audley, the Dean, and visited the Departments of Botany and Microbiology and Physics and Astronomy. Key areas of research were seen and discussed at length and the wide range of activities being undertaken undoubtedly stimulated Professor Mitchell's interest in the College's success in these areas.

This was an important visit for the College and Professor Mitchell expressed himself well satisfied with his day with us.

Visit of the Prime Minister of Sri Lanka — 8 May 1986

The College was visited on 8 May 1986 by The Honourable Ranasinghe Premadasa, the Prime Minister of Sri Lanka. During his visit he was accompanied by his wife and His Excellency Mr Chandra Monerawela, the Sri Lankan High Commissioner. The Prime Minister visited the Department of Computer Science, where he was received by Professor P. T. Kirstein, the Head of the Department, and the Department of Electronic and Electrical Engineering, where he was briefed and conducted by Professor J. B. Davies, Professor of Electrical Engineering. Finally, the Prime Minister visited the Development Planning Unit, where he was met by Dr N. Harris, the Director. On each of these visits the Prime Minister saw areas of research as well as meeting staff and students.

A lunch party concluded the visit at which the Prime Minister made a short speech following the speech of welcome by the Provost. The visit was very successful and it is hoped that our links with Sri Lanka will be enhanced as a result.

Visit of the Mexican Ambassador in London — 30 May 1986

The College was visited on 30 May 1986 by His Excellency Jorge Eduardo Navarrete, the Mexican Ambassador in London. The Provost and the Secretary of the College met His Excellency on arrival and Professor J. W. Mullin, Vice-Provost, conducted the Mexican Ambassador with the Secretary of the College after the Provost's briefing. The Ambassador visited the Department of Mechanical Engineering, where he was met by Professor W. R. Eatock Taylor, and the Department of Economics, where he met Professor D. W. Pearce, the Head of the Department. Finally, he visited the Development Planning Unit, where he was briefed and conducted by the Director, Dr N. Harris.

A lunch party concluded the visit, during which UCL's links with Mexico were highlighted.

Merger of the Institute of Archaeology with UCL

In the Autumn Term of 1985 the College Council and the Committee of Management of the Institute of Archaeology agreed that negotiations should be conducted with a view to the Institute joining the College as from 1 August 1986. Eight working parties were set up to consider detailed aspects of the proposed merger and these reported to a Joint Co-ordinating Committee which produced a 'unification document' for the approval of the College Council and the Institute's Committee of Management. The

negotiations were concluded most successfully and with the approval of the institutions' governing bodies and of the University, the merger becomes effective on 1 August 1986. The five Academic Departments of the Institute of Archaeology will come within the UCL Faculty of Arts and individual staff will also be members of other Faculty Boards as appropriate in recognition of the inter-Faculty interests of the Institute. The merger will enhance the College's existing strengths in Archaeology and Ancient World Studies and create a wide-ranging centre of excellence in Bloomsbury. In place of the Institute's Committee of Management an Advisory Committee is to be set up, including membership from outside the College, with particular responsibility for fostering the external relations of the Institute in regard to both its national and international roles. In addition there will be a Committee for the Co-ordination and Promotion of Archaeology and Ancient World Studies concerned with the whole range of teaching and research activities in these areas at UCL and in the Institute. The College has welcomed this formal arrangement for the enhancement of its academic strength by a merger with an institution whose staff and activities, recognised for their great distinction in the field, had already been in close association with UCL.

Developments towards the Formation of the University College and Middlesex School of Medicine (UCMSM) of University College London

At the time of preparing this Annual Report the date for the legal unification of the School (1.8.87) is less than a year away. Indeed, the bill which will form the Act of Parliament for creating the School has been approved by the governing bodies of the constituent institutions forming UCMSM and by the University. It was deposited in Parliament on 27 November 1986 for consideration during the 1986-87 parliamentary session.

The two major documents which have formed the basis of the unification process — the Unification Sub-Committee's (USC) *Report and Recommendations on the Establishment of the University College and Middlesex School of Medicine of University College London* and the *Second Report on Siting*, which spelt out the options available to the School regarding the siting of both its preclinical and clinical departments, were considered and approved by the constituent bodies of the School during the summer of 1985.

Since then, the Joint School Co-ordinating Committee (JSCC) with the help of its Unification Sub-Committee has continued to consider the detailed implementation of many of the recommendations contained in the Report. Various working parties have been established by the Unification

Sub-Committee during the last academic year. As a result of the Undergraduate and Postgraduate Admissions Working Parties a single admissions procedure is being adopted for the first single preclinical entry in October 1987. An interim prospectus has been produced for the School and has been circulated to schools and colleges throughout the United Kingdom and abroad. A working party considering possible academic developments in Islington and chaired by Professor Semple has met throughout the year and has now produced a list of developments —mostly academic staff appointments, which the School would wish to implement as and when funding can be made available to support teaching within the Islington district where currently a third of the first clinical year students are taught.

Following an application to the Charity Commission, clinical prizes awarded within the Faculty of Clinical Sciences and by The Middlesex Hospital Medical School can now be made available to all students on the joint clinical curriculum regardless of their school of registration. A working party is currently rationalising the distribution of prizes between disciplines both at the clinical and pre-clinical stages of the curriculum. The first joint clinical year graduated in June 1986 and it was interesting to note that UCL registered students were successful in winning many of the most prestigious prizes at The Middlesex (including the Broderip Scholarship) while Middlesex students enjoyed similar success with UCL prizes!

The Students Amenities Working Party was reconvened during the year to assess the needs of the student unions on the various sites with regard to facilities for bars, common rooms, discos etc. Resulting from this, agreement has been reached that major social functions (especially those likely to generate noise) will be transferred from the Student Club House in Huntley Street to the Refectory in the basement of the Windeyer Building where there are no problems of a close location to residential accommodation. The Medical and Dental Students' Society (MDSS) and The Middlesex Hospital Medical School Student Union now field joint sports teams wherever possible. Details of the eventual merger with the UCL Students' Union are now being dealt with by a group chaired by the Provost. For several years now the School has had a combined UC/MHMS freshers' week, but for the first time this year there was a combined finalists' dinner held at The Royal Society of Medicine in Wimpole Street and attended by the Vice-Provost (Medical) and the Deans. This was a truly magnificent occasion and one which it is hoped will become an established fixture of the student calendar in the UCMSM.

The past year has seen a great deal of movement in establishing the management structure of the School. In the *Report and Recommendations* on

the *Establishment of the University College and Middlesex School of Medicine* recommendation 3(29) stated 'that in considering his recommendation to the Academic Board and Council for the appointment of the Vice-Provost (Medical), the Provost should be asked to consult widely within the School of Medicine, including the Committee of the School of Medicine'. A period of consultation throughout the constituent bodies of the School took place during the autumn of 1985 regarding the appointment of Vice-Provost (Medical). (For this first appointment it was not, of course, possible to consult the School of Medicine Committee which will not come into being until legal unification in August 1987). As a result of this consultation Professor Fairweather was appointed as Vice-Provost (Medical) and thus head of the University College and Middlesex School of Medicine (UCMSM) from 1 August 1987.

The Joint School Co-ordinating Committee (JSCC) established two consultative committees during the early part of 1986 with a duty to consult within the appropriate constituencies of the Joint School and to produce (if possible) single names to be recommended for appointment to the posts of Dean of the Faculty of Medical Sciences and Dean of the Faculty of Clinical Sciences. For each part a single recommendation was made: Mr Slack as Dean of the Faculty of Clinical Sciences from 1 August 1987, and Professor Mathias as Dean of the Faculty of Medical Sciences from the same date. As the UCL Statutes prescribe that Deans be elected by the appropriate Faculty Boards, the nominations of Mr Slack and Professor Mathias were subsequently confirmed and agreed independently by the existing Academic Boards of all five constituents of the School of Medicine. Both assumed their posts in a designate form from 1 August 1986 and the appointments have now been endorsed by the relevant Faculty/Academic Boards.

Members of the pre-clinical departments at The MHMS already attend meetings of the Board of the Faculty of Medical Sciences as Observers and this arrangement has been extended to the Clinical Faculty from next academic session. The Dean-designate of Clinical Sciences already attends (in his capacity as Dean of The MHMS) several senior UCL committees and will start to attend several of the existing Clinical Sciences committees in the autumn. A reciprocal arrangement for UCL members of staff to attend the Academic Board of The MHMS has also been introduced.

With the Vice-Provost (Medical) as the Head of the School, the UCMSM will require a School of Medicine administration which will include the administration of the Faculty of Medical Sciences and the Faculty of Clinical Sciences to provide support for the Vice-Provost (Medical) and the Deanery in the on-going administration of the School.

The senior administrative post is that of Secretary of the School of Medicine (Dr Diana F. Sanders, currently Secretary of The MHMS) who has a dual responsibility to the Vice-Provost (Medical) and to the Secretary of UCL for the day-to-day running and co-ordination of activities of the School.

Both the Faculties of Medical Sciences and of Clinical Sciences will have a senior administrative officer and appointments have now been made in both cases. These officers will be responsible to the Dean of the relevant Faculty for Faculty administrative duties.

While the Postgraduate Institutes will form Departments of the enlarged Faculty of Clinical Sciences in the UCMSM they will retain a senior administrative officer with appropriate support staff responsible to the Dean of the Institute for the relevant administrative duties.

Owing to the increased complexity of curriculum administration, particularly at clinical level with the many changes proposed by the Long-Term Curriculum Committee, and the fact that clinical students are now being taught on a number of sites, a senior post (i.e. equivalent to Deputy Secretary/Clinical Sciences Administrative Officer) of Clinical Course Co-ordinator has been established. The appointee is Ms Elizabeth Luke, currently Assistant Secretary of The MHMS, who has already undertaken a substantial amount of the administration of the joint clinical course and the preclinical course at The MHMS.

At the time of legal unification next year, central administrative functions for the School (such as Finance, Buildings, General Services) will become the responsibility of the appropriate UCL Central Administrative Division.

An urgent priority is now to centralise the administration of the School as quickly as possible. After considering a number of options for a central administrative site the preferred option is 115-117 Gower Street (formerly the Department of Mental Health). This is now subject to a detailed feasibility study, but it is not likely to become available until 1988 so that a split site administration will have to continue until then.

The University Grants Committee Medical and Dental Sub-Committees visited College in November 1985 to examine the School's plans in some detail. All aspects of the Unification process were discussed and the Sub-Committee met various groups representing all levels of academic staff, students and representatives of the Bloomsbury and Islington Health Authorities. They were also given an opportunity to discuss the preliminary report of the Long Term Curriculum Committee and its recommendations for a new curriculum. Since then, a working party responsible for the pre-clinical curriculum has produced proposals for the Basic Medical

Sciences in the UCMSM which will be considered by the University in the autumn of 1986.

As far as the siting strategy is concerned the UGC gave broad approval to the plans for the unification of departments where possible and the co-location of pathology departments, both service and academic, on the Middlesex site (see Provost's Foreword p.16). The Medical and Dental Sub-Committees accepted the detailed financial case put forward by the College for the School and agreed that this policy would eventually lead to savings both in buildings and in staff. It was made clear by the Medical and Dental Sub-Committees, however, that because of the economic stringencies facing the university sector at this particular time it would be highly unlikely that they would be able to recommend to the main UGC that the School be awarded the £6 million which had been calculated as the sum necessary to achieve the desired moves. Instead, it was indicated that the School would have to apply for funding for particular projects as and when they arose, through the system of capital-in-recurrent grants (CIR) bids. This the School has done and, for example, it has subsequently applied for, and been awarded, £810k for the new dissecting and embalming suite to be located in the former refectory in the Faculty of Clinical Sciences and large enough to hold the combined medical intake (195 students) and dental intake (50 students) at one time.

At the pre-clinical level it has been accepted that the academic departments of Anatomy, Physiology, Pharmacology and Biochemistry (with the exception, in the case of the last, of three professorial research groups which will remain on the Middlesex site) will move to the Unviersity College site to form single departments. Obviously the existing Faculty of Medical Sciences accommodation on the UCL site will not be large enough to house all the Middlesex staff who will transfer under the relocation exercise. Another location, preferably close to the existing Faculty of Medical Sciences, would be required. It became clear that this location would have to be the existing main building of the Faculty of Clinical Sciences in University Street. Most of the departments housed in the FCS building will at some stage be moving to the Middlesex site, that is the Departments of Medical Microbiology, Histopathology, Biochemical Pathology and the ICRF Human Tumour Immunology Group, thus making available the additional space required for departments in the enlarged Faculty of Medical Sciences.

The crucial source and the trigger mechanism for many of the early moves was the approach of the Ludwig Institute of Cancer Reseach to the College to establish a branch of their Institute on the UCL/MHMS campus. Various locations were considered, but the eventual choice was the

Courtauld Institute of Biochemistry on The MHMS site. After lengthy and detailed negotiations between the solicitors of The MHMS, Ludwig and Bloomsbury Health Authority, the Courtauld Building was leased to the Ludwig and the School given a sum of £1½ million to be used towards the resiting exercise. Under the terms of the lease the Courtauld is to be vacated by 1 October 1986.

Planning for the late 1980s

In the Autumn Term, the College, in common with every other university institution in the country, made its submission to the UGC describing its research activities, including those of The Middlesex Hospital Medical School, the Postgraduate Institutes of Laryngology and Otology, of Orthopaedics and of Urology, and of the Institute of Archaeology, together with its financial and student number projections up to the end of the decade. The UGC had announced that research statements from the institutions would be assessed and the resulting assessment taken into account in the grant allocation process. On 27 May the UGC published the results of its assessment of the research of university institutions, subdivided into so-called 'cost centres'. Of the 24 cost centres for which statements were submitted by the College, 21 were judged as better than average and 18 were rated as outstanding in research and this placed the College behind only Cambridge and Oxford in the league table of research excellence. As the Provost commented in the *Bulletin*: 'Overall, the results vindicate completely the College's fundamental strategy of maintaining excellence in research across an extremely wide field'. (For further detail of the College's success, see the Provost's Foreword to the Report, pages 7-10.)

The College Response to the CVCP Steering Committee for Efficiency Studies (Jarratt)

During the course of the academic year 1985-86 the College has been concerned with the consideration and implementation of the recommendations made in the Report of the Steering Committee for Efficiency Studies of the Committee of Vice-Chancellors and Principals of the Universities chaired by Sir Alex Jarratt, which was issued in spring 1985. University College London was one of the six university institutions which were investigated in detail by the Jarratt Committee. The effectiveness of the College's general and financial management was assessed in this study and the College received a very good report. Major recommendations were made nationally as a result of the Jarratt Committee's deliberations and in

addition recommendations specific to UCL were made in the UCL Study Officer's Report.

All the recommendations, both of the national and the College reports, have been addressed by the College. Some proposals were implemented soon after the receipt of the Report and a comprehensive response is in preparation. In each case, matters have been carefully discussed within the College, involving the major College committees, the academic and administrative staffs and other interested parties. Throughout discussions have taken place with relevant College union representatives, whose co-operation has been especially notable.

Within the area of general management there have been changes in the College's committee structure and administrative procedures. In particular, the establishment of the Academic Planning Committee is a direct consequence of a major policy recommendation of the Jarratt Committee. The Committee includes lay Council members and has a most important role in the evaluation of College policy. In addition, major reviews have been carried out of both the committee structure and the work carried out by committees. Wherever possible the number of Committees and of meetings has been reduced. At the same time, policy committees generally have been strengthened: thus, for example, the institution of the External Relations Policy Committee emphasises the College's determination to co-ordinate its activities in an area of major importance. In accordance with other recommendations of the Jarratt Report a Space Sub-Committee has been formed to report to the Planning and Buildings Committee, and the tenure of the appointments of Vice-Provosts and Deans has been amended. Similarly the Finance Secretary and Accountant and his staff have made recommendations for the revision of a number of financial management procedures.

Some recommendations are still under consideration, including the use of performance indicators, whose value is considered to be of importance both within individual universities and on a national basis. Another area of particular interest has been staff appraisal. The need for a staff appraisal system has been recognised within the College and a detailed procedure is currently under consideration. The proposed system would be designed to assess and assist individual academic staff in their career progress and it has been agreed that the part played by Heads of Departments should be one of general advice and counselling in this direction. When the new procedure is defined, a broadly comparable system is likely to be adopted for the administrative staff of the College. It is not envisaged that there should be regular formal written reports on individuals, but a general appraising of work and progress, in the context of discussion and advice.

The College's full report on its recommendations is to be made to the University Grants Committee in late 1986.

University of London: Academic Initiatives

In response to the University's invitation to submit applications for supplementary grant to fund academic initiatives from 1985-86 onwards, the College submitted nine non-medical and five medical proposals, the latter in conjunction with The Middlesex Hospital Medical School. The University announced in October the following grants to UCL and the Joint School of Medicine from a total of £335,000 available for the University as a whole:

(i) £15,000 for a Lectureship in the Department of Geography to develop inter-departmental teaching and research concerned with the geography of social change in western Europe;

(ii) £16,000 for a Lectureship in the Department of Photogrammetry and Surveying to develop inter-departmental teaching and research in geodesy (especially physical geodesy);

(iii) £15,000 for a non-clinical Lectureship in Medical Sociology in the Department of Genito-Urinary Medicine to develop behavioural studies related especially to Acquired Immune Deficiency Syndrome and genital herpes;

(iv) £16,000 for a Clinical Lectureship in the Department of Psychiatry, in conjunction with the Department of Anthropology, to develop clinical research in transcultural psychiatry directed to the needs of ethnic sub-cultures in Britain.

Engineering and Technology Programme

The Department of Electronic and Electrical Engineering received a recurrent grant of £300,000 per annum from the UGC under the Engineering and Technology programme, and the Department proposes to take an additional 25 low-fee students per annum under the new scheme. The funds will be used to support eight members of academic staff and one technician and have also enabled building works and renovations to be put in hand for 66-72 Gower Street, part of which is already in occupation.

Department of Electronic and Electrical Engineering: Endowed Lectureship

Solartron Transducers agreed to endow a Lectureship to be known as the Solartron Lectureship, in the Department of Electronic and Electrical Engineering for five years and to provide additional funds for research work in the field of sensors.

Additional UGC Grant for Computer Science

The UGC allocated a supplementary sum of £162,000 per annum in recurrent grant to the College for computer science. The additional grant was not to be used to fund increased student numbers; it was agreed, instead, that the funds be used to strengthen staffing in the Department of Computer Science and to facilitate the provision of extra space for the Department. Among the new posts established was a second Chair of Computer Science to which Dr P. C. Treleaven has been appointed.

Excavations and Archaeological Survey in Egypt

Professor H. S. Smith, Edwards Professor of Egyptology, and Mr D. G. Jeffreys directed an expedition of the Egypt Exploration Society at the ancient city of Memphis, Egypt, between October and December 1985. This was the fifth campaign of excavation and archaeological survey designed to improve understanding of the history, topography and environment of this famous city. Excavations at Kom Rabi'a have revealed an artisans' settlement of the New Kingdom period (c.1550-1090 BC) in proximity to the precinct of Ptah, the chief god of Memphis. The domestic buildings and tool assemblages are of great interest in casting light for the first time on the life and industry of the city, but the excavation has also been of great topographical value in showing that occupation levels in the old city in the time of Ramesses II (c. 1290-1223 BC) were c.3 metres above the Ptah temple, founded by that king. This may confirm that there was an eastward shift of the river at Memphis, and a programme of borings were started which will, it is hoped, provide scientific evidence of this and of other environmental aspects of the city. The season included epigraphic work on the great colossus of Ramesses II, directed by Dr J. Malek of the University of Oxford and work on demotic Egyptian stelae of the Mother of the Apis bull by Professor Smith and Miss C. A. R. Andrews of the British Museum.

Dr G. T. Martin, Reader in Egyptian Archaeology, directed an expedition of the Egypt Exploration Society and Leiden Museum in the New Kingdom necropolis at Saqqara, Egypt, between January and March

1986, the twelfth season in a campaign of excavation intended to reveal tombs of officials and others who lived and worked in nearby Memphis, the capital. This year three tombs were completely uncovered, recorded and restored: that of Khay, a royal gold-washer, *tempore* Ramesses II; the tomb of his son Pabes, a tradesman, *tempore* Merenptah; and the tomb-chapel of Ramose, a military officer who lived at the end of the 18th Dynasty. One of the tomb-shafts in the latter monument gave access to the subterranean parts of the tomb of Maya, treasurer of Tutankhamun, a discovery which received much press and television coverage. The excavation of this great tomb will begin in the winter of 1986.

LIVE-NET

At a press conference on 18 March the Vice-Chancellor of the University, Lord Flowers, and the corporate director of British Telecom, Mr John Alvey, signed a contract to establish the plant for LIVE-NET (previously known as the Science Sites Network). The College had agreed to participate in this high-speed network development which provides for a switched video service of four two-way video and sound channels to Imperial College, King's College, Queen Mary College, Royal Holloway and Bedford New College, the University Audio-Visual Centre, the University Computer Centre and UCL. The aim is to provide a truly interactive and user-friendly video service to the participating institutions for teaching and research, and British Telecom is interested in the possibilities of marketing such a service nationally. In the longer term the Network will provide a testbed for networking research in the University in medium and high-speed digital data transmission and switching, and, possibly, all digital systems. The College has agreed to provide resources to equip one lecture room and one seminar room, and it is hoped to connect the College to The Middlesex Hospital Medical School and the Whittington Hospital. A College Network Facilities Management Committee has been set up to co-ordinate the College's participation in the project.

Department of Genetics and Biometry: Transfer to the Faculty of Science

The Department of Genetics and Biometry was from its inception until 1978 in the Faculty of Science, but in that year it was transferred to the Faculty of Medical Sciences to facilitate a merger with the Royal Free Hospital School of Medicine. However, the merger did not materialise, and at present the greatest part of the Department's undergraduate teaching is to science students, while its postgraduates and research fellows all work

in basic rather than medical science. The institution of a BSc in Genetics six years ago has involved the Department more in general biology teaching in the first and second years. In the light of these factors and to facilitate the development of a more rational approach to the teaching of biology in the College by maximising contact, at all levels, between the Department and the Departments of Botany and Microbiology and Zoology and Cell Biology, it has been agreed that the Department of Genetics and Biometry should be transferred to the Faculty of Science. Members of the Department will retain their links with the Medical Sciences Faculty, particularly through continued membership of the Medical Sciences Faculty Board.

New Chairs

With the support of a generous endowment from Smith Kline and French Research Limited the College was able to propose to the University the establishment of a new Chair, to be called the Smith Kline and French Chair of Medicinal Chemistry, and following its establishment Dr C. R. Ganellin, Vice-President (Chemical Research) of Smith Kline and French Research Limited, was appointed to the new Chair. The establishment of this Chair and the appointment of Dr Ganellin will enable the College to continue and develop the teaching and research in medicinal chemistry, unique in the University, which was pioneered by Charles Vernon.

In the light of the impending retirement of two of its distinguished Professors of Law, Professor B. Cheng, Professor of Air and Space Law, and Professor E. R. H. Ivamy, Professor of Law in the field of maritime law, the College proposed the institution of a new Chair of International Law and the University has approved the appointment of Dr M. H. Mendelson, Fellow of St John's College, Oxford, as the new Professor.

Recruitment of Overseas Students

The College has agreed a plan to increase its population of high-fee overseas students from its previous total of approximately 800 to a figure of 1,000, and to promote this campaign a new post of Director of the Foreign Study Office was created, to which Mr Peter Craggs, Senior Assistant Registrar at City University, was appointed. The Director's duties include the preparation of specialised literature to attract overseas students, representing the College at conferences in the UK and abroad, advising overseas students about application to and study at the College, exchange programmes and advising UCL students wishing to study abroad.

Schemes for Departmental Rewards and Penalties in relation to Overseas Students

To encourage the recruitment of overseas students the College has revised its procedures for rewarding Departments for taking overseas students and a percentage of the fee may be credited to the Faculties' Savings Programmes where Departments attract increased numbers of students. The scheme relating to overseas non-degree students provides for the fees to be divided equally between the College and the admitting Department.

Committee on Equal Opportunity

Following a report from an AUT/College working party the College has agreed to establish a Committee on Equal Opportunity with major responsibility for making recommendations for College policies and procedures designed to ensure equality of opportunity in the College and for monitoring existing practices and those arising from policy changes. The Committee will be chaired by a Vice-Provost.

Department of Paediatrics: Sub-Department of Paediatric Mental Handicap

During 1984-85 discussions took place between Professor L. B. Strang, Head of the UCL Department of Paediatrics, and Dr D. M. Ricks, Consultant in Paediatric Mental Handicap at Harper House Children's Service, Harperbury Hospital and at University College Hospital, about the possible establishment of a Sub-Department of Paediatric Mental Handicap within the Department of Paediatrics at UCL. On the recommendation of the Faculty of Clinical Sciences Council approved the proposals for the establishment of the new sub-department. The sub-department will not involve a division of the existing department, but rather a new development which will remain on the Harperbury Hospital site with certain research activities on the UCL site. The Departments of Phonetics and Linguistics and of Psychology which have related interests in this field, will also be involved in this development.

University of London 150th Anniversary Year — Dinner given by University College London 11 February 1986 in Celebration of 160th Anniversary of the College Council

A unique dinner in the College's history took place on 11 February 1986, following the meeting of the College Council on that day. The occasion was in celebration of both the 150th Anniversary of the University of

London and the 160th Anniversary of University College London's first Council meeting, which was held on 11 February 1826.

Among the guests at the dinner were the Vice-Chancellor of the University, Lord Flowers, and Lady Flowers, Sir Peter Swinnerton-Dyer, Chairman of the University Grants Committee, and Lady Swinnerton-Dyer, Mr Maurice Shock, Chairman of the Committee of Vice-Chancellors and Principals, Heads of Colleges of the University and senior officers from Senate House and their wives. The College and its close associates were well represented. At the conclusion of the dinner, the Provost stressed the importance of the occasion as a precursor to the Sesquicentenary Celebrations of the University of London. The toast to the University of London by the Provost, following the Loyal Toast proposed by the Chairman of the Council, was responded to by Lord Flowers, the Vice-Chancellor. The Vice-Chancellor stressed the close historical links between the College and the University of London and concluded his speech by proposing the toast of University College London.

Appointment of a Director of External Relations and Establishment of the External Relations Policy Committee

The College took the decision in November 1985 to appoint a Director of External Relations. The need for this appointment had become pronounced in the light of the increasing demands of the whole field of external relations.

Dr S. R. Montgomery, with considerable experience both in the College and in the field of industrial and external relations, has been appointed as the first Director. Initially, he is combining the post with that of Manager of the London Centre for Marine Technology but it is anticipated that in the coming year Dr Montgomery will be able to give more time to his new and important appointment. The Director of External Relations' duties and responsibilities will be primarily aimed at promoting the College's activities, achievements, expertise and facilities in teaching and research to industry, Government, the press and the public both within the United Kingdom and abroad, as well as encouraging academic departments within the College to make use of the College's entrepreneurial and public relations facilities. The Director will work very closely with the Secretary of the College and with the new External Relations Policy Committee, which has been formed to co-ordinate College policy across a broad range of external relations issues.

The External Relations Policy Committee is to be chaired by Professor J. E. C. T. White, Vice-Provost, and has two lay members, Mr H. L. James

and Mr H. R. Oakley. The Director of External Relations will be concerned initially with a number of major policy initiatives intended to publicise the College's work in all fields.

Assembly of Faculties

The annual Assembly of Faculties was held on Wednesday, 18 June and followed the now established format of the Assembly being addressed in Friends House by the Provost and a guest speaker, together with an exhibition of a cross-section of academic and administrative work of the College held in the Cloisters. A large gathering of distinguished guests, members of the College, students and their parents attended the Assembly.

Following an introduction by the Chairman of Council, the Provost gave a concerted review of College activities and achievements, after which the Assembly was addressed by Sir Randolph Quirk in his role as President of the British Academy.

The formal proceedings were completed by Professor Sir John Hale presenting a vote of thanks to the speaker, and the company moved to the Main Quadrangle for refreshments which for once were taken in brilliant weather.

Liaison with Schools

(a) Schools Conference

The annual Schools Conference was held on 16 and 17 April, with head teachers and their representatives attending from schools and sixth form colleges across the country. At the introductory meeting they were welcomed by the Provost and entertained by talks from Professor P. Dunnill and Professor J. Dodgson.

Once more our guests were able to visit all Departments in the College to meet staff and to discuss admissions procedures and course details with them. In response to enquiries last year, some emphasis was placed on the College's student accommodation policy. A special discussion session was arranged at Campbell House and, as well as the usual showing of the College film, the 'Premiere' was given during the evening of the new video, *London Lives*.

(b) *London Lives*

This 16-minute video, directed by a former student of the College, Peter Nicholson, was commissioned and completed within two months. It is designed to provide information about student

accommodation at the College to prospective undergraduate applicants, both on loan to schools and for visitors to College, including interviewees.

(c) Other Schools Contacts

The College was represented at over 20 Sixth Form Higher Education Conferences during the year, mostly organised by Local Education Authorities. The Schools Liaison Officer and the Assistant Registrar (Publicity and Information) also accepted invitations to visit a number of individual schools and arranged visits by school parties to the College, helped by colleagues in many departments. The regular programme of Schools Open Days and Conferences organised by individual Faculties or Departments continued, including events in Medicine, Chemistry, Biological Science, Mathematics, Geological Science, Geography, Classics, Architecture and Physics and Astronomy.

(d) Meeting with Heads' Representatives

In December the Provost and Tutors once more met representatives of the Secondary Heads Association, the Headmasters' Conference and the Girls' Schools Association to discuss matters of mutual concern. These included the effects of the teachers' action in schools on A level studies, the introduction of a new grading system for A level examinations, the implication for sixth forms of the Technical and Vocational Education Initiative and trends in applicants' choices of university courses, especially as they affect courses in science, minority languages and in London at large.

Naming of College Buildings

A number of areas and rooms in the College have been given new titles. The Inherited Blood Diseases Unit, which comprises two laboratories in the Department of Haematology and has been entirely refurbished with funds from donations from the Sportsman's Aid Society, has been named the 'Jack Hyams Unit for Inherited Blood Diseases'. (Jack Hyams was a past Vice-Chairman of the Sportsman's Aid Society.) The newly named Unit was formally opened by the Right Honourable Barney Hayhoe, the Minister for Health, when he visited the Faculty of Clinical Sciences on 5 February.

The Reception Room on the ground floor of the new extension to the Old Engineering Building, which was furnished and fitted out with funds received from The Friends of UCL, has been named 'The Friends Room'.

To commemorate a donation received from the Wolfson Foundation as a contribution towards the 150th Anniversary Appeal and used to fund a room for postgraduate teaching in Civil Engineering of Offshore Structures, the large room on the second floor of the Old Engineering Building has been named the 'Wolfson Room'.

Lecture Theatre G6 in the New Engineering Building has been named 'The Ambrose Fleming Theatre' after the late Sir Ambrose Fleming to mark the centenary of the Department of Electronic and Electrical Engineering and of the appointment of Sir Ambrose Fleming as its founder.

General Review of College Finance

The Court Block Recurrent Grant from the UGC to the College for 1985-86 was announced in April 1985. The total received from the Court in the year was £31,640,479. In cash terms this represented an increase equivalent to the average for all London Colleges of just over two per cent, but in real terms it meant yet a further cut in Government support. By the end of the year Academic Departments were suffering cuts in their basic UGC support in excess of 25 per cent in real terms compared with the level of such resources in 1979. Yet the signs still are that there will be further cuts during this decade. In this situation, the College can take some comfort from two developing features of University resource allocation. Firstly, the UGC has indicated its intention to help further those who help themselves by incorporating in future Grant allocations an element to complement non-UGC funding attracted, both as a reward for initiative and in recognition of the 'dual support' concept under which Research Councils meet the Direct costs of specific research and the UGC provides the Overhead element. This will benefit UCL because the non-UGC funding attracted by the College continues to be well in excess of the national norm. Secondly, the UGC has made it quite clear that it intends to recognise excellence in research in future grant allocations.

Evidence of a more selective approach to funding was already beginning to be felt to the College's advantage in 1985-86 especially in the allocation of Grants for Scientific Equipment. The annual Equipment Grant of £2,234,900 represented an increase over 1984-85 greater than both the London and national averages. Even more significantly, grants totalling £439,000 and £438,000 were awarded to the Departments of Electronic and Electrical Engineering and Chemical and Biochemical Engineering from funds set aside by the UGC so that 'a limited number of Research Centres could be equipped to the highest international standards'.

Further earmarked Recurrent Grants were received during the year,

notably £162,000 for continuing developments in the Department of Computer Science.

A number of substantial Capital Grants were awarded to the College by the Court and UGC principally in support of the forthcoming mergers and collaborative projects to which the College is committed. In response to the presentation to the UGC of the plans for the new Single School of Medicine within UCL, a grant approaching £1 million was given by the UGC for a new Dissecting Room in the Department of Anatomy and Embryology and the Court also pledged itself to future support for these projects.

A Capital Grant of almost £500,000 was contributed by the Court for the refurbishment of Gordon House for the shared accommodation venture between the Departments of Chemistry at UCL and Birkbeck College.

For its part the College made a Grant to the Students' Union of more than £100k for improvements in the Union Buildings, the largest single grant from College Fund for more than 10 years for projects of this kind.

Industrial and commercial collaboration continued to be a thriving aspect of College activity as evidenced by the turnover of the Academic Services Unit which exceeded £2 million. At the same time GEC contributed £1.25 million to provide an additional floor for one of the College Departments most active in this area, the Department of Electronic and Electrical Engineering.

The College was able to reduce its accumulated deficit by £22,910, despite an operating deficit of £1,036,847 on the year's activity, because of profits on sales of investments of £1,659,757.

Inevitably, in the face of the further cuts in Government Grant support, Finance Committee was compelled to set a substantial further target, in excess of £1 million to be made good in 1986-87. This new earnings and savings target programme (NEST) is encouraging Departments to meet their individual targets as much by new earnings as further savings. A particularly encouraging development in this direction is the number of high-fee paying non-degree students being attracted by the College's Arts Faculty.

The College Estate

Priority in building works during the 1985-86 session has been given to a crash programme of works forming phase 1 of the resiting proposals agreed by the Joint School Co-ordinating Committee with the eventual aim of moving undergraduate teaching from the Windeyer Building of The

Middlesex Hospital Medical School to Gower Street and a similar quantity of clinical teaching and service facilities in the opposite direction. The initial moves have largely been funded by the sale of a long lease of The MHMS's Courtauld Building in Riding House Street to the Ludwig Institute for Cancer Research. Under the terms of this lease full vacant possession of the building has to be given to the Ludwig Institute by October 1986. In order to achieve this a complex series of interdependent projects had to be negotiated, designed and carried out within nine months. These included decanting staff to clear space for the major moves of The MHMS Department of Biochemistry to UCL's Darwin Building and of The MHMS Department of Chemical Pathology into the Windeyer Building.

Following this initial programme to release the Courtauld Building, work will start on a second phase of projects aimed at completing the move of Pre-clinical Departments to the Gower Street area, using both the existing pre-clinical space in the Rectangle and the former UCHMS main building. The next major contract to start will be the conversion of the former UCHMS Refectory into a Dissection Laboratory for the whole of the Joint School's intake. Clinical Departments and most of the Pathology Departments will be moved into space in present MHMS buildings as Pre-clinical Departments move out. The planning is co-ordinatd by a small sub-committee of the Unification Sub-Committee. Provision for the service commitments of the Pathology Departments will be carried out in close collaboration with the Bloomsbury Health Authority.

The completion of the Gower Street Entrance, reported last year, was most significantly marked by a grand opening ceremony in the Queen's presence last November; the event is recorded on an inscription over the doors in the Portico. Finishing touches to the scheme continued during the winter. The returfed lawns survived the severe weather and make the front quadrangle a green and pleasant place again.

One other building project had a grand opening during the year; the new laboratories for the Department of Endocrinology and Diabetes were opened by the Chancellor, Her Royal Highness Princess Anne during her visit to the Whittington Hospital.

Among major projects in hand, work has started on the addition of an eleventh floor to the New Engineering Building for the Department of Electronic and Electrical Engineering funded by a generous benefaction from GEC. Work is nearly complete on the conversion of Gordon House, adjacent to the Department of Chemistry in Gordon Street. The building will be partly occupied next session by the College's Departments of Greek and Latin. The upper part will be used as offices by the Department of

Chemistry of Birkbeck College who will be using the adjacent Christopher Ingold Laboratories for teaching and research.

As far as cost is concerned, the biggest project of the year has been the installation of a new telephone system throughout the College. This incorporates the latest technology and will also provide a data transmission facility. The system it replaces has served the College well, but was incapable of extension and had become increasingly difficult to maintain in recent years.

Visitors to the College will notice that the Flaxman Gallery has received its first major overhaul for 20 years. The structure has been carefully examined from scaffolding, remedial work carried out and the whole of the Dome and Gallery redecorated. As part of this work, the well-known Tonks portrait of Jeremy Bentham and the College founders, which in recent years stood in the North Cloisters, has been restored to its original position in one of the windows in the drum of the Dome. Finally the Flaxman casts have been cleaned and restored by experts with funds raised by appeal.

Staff Training

In-house training sessions for both academic and non-academic staff have been running at the College for several years. However, this year saw an increase in the level of activity.

The Sub-Committee on the Training of Teachers made considerable changes to the content and style of the Training and Development Programme for Academic Staff and, as a result, sessions were offered to staff on 14 different subjects. These included skills sessions on teaching of student selection interviewing, small group teaching, student assessment, personal tutoring, and postgraduate supervision. Some joint sessions were run with administrative staff as meetings, for interpersonal relations and assessing staff performance.

For non-academic staff the main events of the year were two three-part courses: one for technical supervisors and the other for office supervisors. In addition a session on office reception skills was run for secretarial staff.

Library

The theme of the session has been one of adjustment to the major changes which occurred in the previous session, and of preparation for further major changes during the session to come. Readers and Library staff have been getting used to the new arrangements resulting from the establishment of the Bloomsbury Science Library and the introduction of the GEAC

borrowing system. Overall the Bloomsbury Science Library is proving successful in meeting its objectives, in that a more logical arrangement of collections has been achieved and many subscriptions duplicated in various libraries have been cancelled, freeing funds for new subscriptions. The more efficient use of space and staff is the motivation behind the proposals — finalised in the session under review and to be implemented next session — to transfer the College History collections together with the Library of the Royal Historical Society to the second floor of the Main Building. A way through will be provided from the History collections to the Mocatta Library, enabling the latter to be accessible for longer hours. Rationalisation of periodical holdings with the aim of freeing funds for new titles has begun in the clinical area, specific proposals for co-operation already being discussed by the Library Committee and by the Joint School Co-ordinating Committee in advance of formal unification with The Middlesex and the three postgraduate institutes. Similar co-ordination of purchasing policy will need to be developed in the ancient world area, through co-operation with our new partners in the Institute of Archaeology, a merger which holds much long-term promise.

Inflation in books and periodical prices continues at a high level, and efforts are being made to increase the Library's income. University College Library has always been supported by generous donations in cash or in kind from individuals and from College departments, but the new thrust is to raise income from outside the College. A successful application to the British Library has brought in £37,660 to conserve the Bentham manuscripts. An appeal is also being prepared to an invitation to commercial and industrial companies to sponsor expensive items or to use the Library services in return for a fee. Even if extremely successful, however, such measures will only ease rather than solve the Library's long-term financial problem.

It is pleasing to report that the automated borrowing system continues to settle down, with relatively few problems for such a major change. The aim must be to introduce an integrated system, linking the records for acquisition, cataloguing and borrowing. With our scattered holdings any new system must be introduced quickly not only to the various libraries on the Rectangle but also to our new partners at The Middlesex Hospital Medical School, the postgraduate institutes, the hospital libraries and the Institute of Archaeology. Investigations are currently under way into the best system for University College and its partners, sharing information with other major libraries in London. As the Library obtains more management statistics, the staffing levels in the various buildings will have to be adjusted to take account of changing patterns of use, although the basic problem of overall under-staffing remains.

Overall the use of the Library has continued in a traditional pattern, showing a small increase in borrowing, heavy (but unfortunately unquantifiable) use for consultation, and low but individually important use in the evening and on Saturdays. Although the use of the Library by members of the University from outside UCL has not been high, the loan statistics show that the rearrangement of the collections has altered the balance of use between the Main Library and the Science Library. Borrowing statistics are now available in more detail than under the previous manual system and show the transfer in number of loans from the Main Library (down 26 per cent) to the Science Library (up 42 per cent), as well as increases in the number of loans from the Clinical Sciences and Environmental Studies libraries.

This has been the first session for many years in which the Science Library has been open on a Saturday in the first two terms as well as the usual opening in the summer term. Use has not been high, averaging 215 readers per Saturday entering the Science Library, but use may increase as members of the College become more aware that the Library is open. One area of the Library which has shown a spectacular increase in use is the Manuscripts and Rare Books Reading Room, which recorded an 85 per cent increase in the number of readers' visits to consult manuscripts. The manuscripts and rare book collections help to make University College one of the major research libraries in the United Kingdom, and it is good to observe the heavy use made of these collections by scholars from all over the world.

No Annual Report could conclude without paying tribute to the work of the Library staff, too many to name individually, whose individual expertise and dedication contribute to the high regard in which the Library is held in the College and in the University.

Computer Centre

The past year has been one mainly of consolidation in the Computer Centre, but there have been interesting developments too. It has, at last, proved possible to bring the EUCLID computing system up to its design specification of 150 users to be supported simultaneously. This has been achieved through the combined efforts of College staff and GEC, after an extended effort lasting several years. The JANET electronic mail system has been introduced for general use. This allows easy communication between users on the College site as well as other universities in the UK, and to many sites in Europe and America through the EARN and BITNET networks. The Computer Board has given a two-year grant for the

establishment of a small project in computer-assisted learning, sited in the Departments of Geography and Psychology, as part of its national initiative together with the UGC. In the first place students will be introduced to ideas of statistics and data handling. Several RML 'Nimbus' work stations have been installed and work started in May 1986, after some delays in recruiting staff. We have also been an active participant in a University-sponsored investigation of high-quality printing using computer-driven phototypesetters, working jointly with the commercial developers of the 'Protex' system. Support for word processing systems in College departments has continued and been extended.

Old Students' Association

Our programme of functions for 1985-86 opened with an extra event — a private tour of the Thames Barrage conducted by the Chief Engineer of the project. The buffet supper and disco which followed the Annual General Meeting were again well supported. This is open to all final-year students. Our joint dinner with the Friends of UCL took place in November and the visit to the College Opera was in February. Our Special Dinner guest in March was J. Z. Young, Emeritus Professor of Anatomy, who presented a fascinating talk on 'Some Ups and Downs of Biology and Psychology at UC', while our Spring Dinner guest in May was Professor Martin Swales of the Department of German. Our year's events closed on a triumphant note with a 'Geological Walk in the City of London' conducted by Dr Eric Robinson of the Department of Geological Sciences.

The Association's membership records are now maintained in our own computer system. We should like to extend these records so that we have as comprehensive a set as possible of all past students, whether or not members of the OSA, and should be grateful to receive information regarding any former student.

Appointments to Council

Mr S. P. Chalfen, General Counsel and Director of Legal Services at Rank Xerox Ltd, was co-opted to serve as a member of Council, for five years with effect from October 1985.

Dr P. Doyle was co-opted on to Council for a five-year period with effect from October 1986. He is Deputy Chairman and Technical Director of ICI Pharmaceuticals Division.

The new representative of the Fellows of University College London on Council is Dr C. Hilsum. He gained a BSc and PhD at the College and is now Director of Research at GEC.

Retirements from Council

Mrs Anne Jones' term of office as a member of Council came to an end this year. She was one of the two members of Council appointed after consultation with the Inner London Education Authority. Mrs Jones is Head of Cranford Community School and an active member of the Secondary Heads Association. Her experience of secondary education has made her a most valuable member of the Council.

Sir Arthur Snelling has been the representative of the Fellows of the College on Council since 1976 and the College was sorry to lose his services when he retired at the end of his term of office. He was educated at UCL and is a retired member of HM Diplomatic Services. Everybody in the College was saddened to hear of the death of Mr Terry Duffy, a member of Council since 1982. The Council had been most grateful to him for agreeing to join it, when he was so busy as President of the Amalgamated Union of Engineering Workers.

Public Lectures

The following public lectures were among those arranged by the College during the session: Sir Banister Fletcher lectures by Mr Boris Pedrecca (Sir Banister Fletcher Visiting Lecturer in Architecture) on 'Architecture in Vienna' (three lectures); Commonwealth Fund Lecture in American History by Professor John L. Thomas (Brown University) on 'The Road Not Taken: Perspectives on Post-Frontier America, 1920-1940'; The Dorothea Coke Memorial Lecture in Northern Studies by Professor R. I. Page (University of Cambridge) on ' "A Most Vile People": Early English Historians on the Vikings'; Durning-Lawrence Lectures in the History of Art by Professor Thomas Puttfarken (University of Essex) on 'Composition and Spectator: Meanings of Pictorial Order' (six lectures); Freud Memorial Lectures in Psychoanalysis by (i) Professor Joseph Sandler on 'The Gyroscopic Function of Unconscious Phantasy', (ii) Dr Adam Limentani (British Psycho-Analytical Society) on 'The Psychodynamics of Drug Addiction', (iii) Professor Robert S. Wallerstein (American Psychoanalytic Association, International Psycho-Analytical Association) on 'Psychoanalysis and Psychotherapy: Relative Roles Reconsidered', (iv) Dr Brendan MacCarthy (British Psycho-Analytical Society) on 'Incest — its Occurrence and Consequences: a Psychoanalytic View', (iv) Dr Pinora Pines (British Psycho-Analytical Society) on 'A Woman's Unconscious Use of Her Body: a Psychoanalytic Perspective', (vi) Professor Daniel Stern (Cornell University) on 'The Implications of Recent Infancy Research for Psychoanalytic Theory and Practice', (vii) Dr Mervin Glasser (British Psycho-

Analytical Society) on 'A Psychoanalytic Perspective on Sex and Violence', (viii) Juliet Mitchell (British Psycho-Analytical Society) on 'The Letter "i" ', (ix) Dr Victor Smirnoff (French Psychoanalytical Association) on 'Happiness: A Psychoanalytic View', (x) Dr Christopher Dare (British Psycho-Analytical Society) on 'Object Relations and the Development of Symptoms — A Psychoanalytic Perspective', (xi) Dr Hanna Segal (British Psycho-Analytical Society) on 'On the Clinical Usefulness of the Concept of the Death Instinct', (xii) Dr Malcolm Pines (British Psycho-Analytical Society) on 'On History and Psychoanalysis', (xiii) Dr R. S. Britton (British Psycho-Analytical Society) on 'Reality and Unreality in Psychoanalysis'; Neale Lecture in English History by Dr Kenneth O. Morgan (The Queen's College Oxford) on ' "Fit for Heroes"? British Post-War Reconstruction, 1918 and 1945'; Lord Northcliffe Lectures in Literature by Professor R. Rorty (University of Virginia) on 'Contingency'; (i) 'Metaphor and the Incompletability of Language', (ii) 'Freud and the Uncentredness of the Self', (ii) 'Liberalism and the Fragility of Community' (three lectures); Seton Memorial Lecture by Dr Jenny Wormald (St Hilda's College, Oxford) on 'Late-medieval Scottish Kingship and its legacy in Early-modern Britain'; Smith, Kline and French Laboratories Lecture in the Allied Health Sciences by Dr R. W. Tsien (Yale University) on 'Calcium Channels in Neurons and Muscle Cells as Targets for Neurochemicals and Drugs'; William Townsend Lecture by Mr Richard Cork (Art Historian and Art Critic of *The Listener*) on 'Bomberg and the Bomb Store'.

Inaugural Lectures were given by Dr J. B. Davies (Professor of Electrical Engineering) on 'Electronics Through Mathematics'; Mr J. McN. Dodgson (Professor of English) on 'Invention and Discovery in the Study of Early English Names'; Dr M. J. B. Duff (Professor of Applied Physics) on 'Cellular Logic and Image Processing'; Dr P. Dunnill (Professor of Biochemical Engineering) on 'Biochemical Engineering, Biotechnology and British Industry'; Dr W. R. Eatock Taylor (Professor of Ocean Engineering) on 'Degrees of Freedom in Offshore Structures'; Dr J. I. Israel (Professor of Dutch History and Institutions) on 'A New Form of State? The Uniqueness of the Dutch Republic in the Seventeenth Century'; Dr Annette C. M. Lavers (Fielden Professor of French Language and Literature) on 'Sartre and Freud'; Dr M. G. Marmot (Professor of Community Medicine) on 'Epidemiology and the Art of the Soluble'; Dr Ursula Mittwoch (Professor of Genetics) on 'Males, Females and Hermaphrodites'; Dr J. R. Pattison (Professor of Medical Microbiology) on 'Microbiology Matters'; Mr D. W. Pearce (Professor of Economics) on 'Sustainable Futures: Economics and the Environment'; Dr A. Sheiham (Professor of Community Dental Health and Dental Practice) on 'The Limitations of Dentistry'.

Lectures on Current Legal Problems were given by (i) Lady Warnock (Girton College, Cambridge) on 'The Enforcement of Morals', (ii) Mr Roger Smith (Fellow, Magdalen College Oxford) on 'Land Registration: White Elephant or Way Forward', (iii) Dr William Plowden (Royal Institute of Public Administration) on 'Law, Politics, Convention, Conscience and Accountability in British Government', (iv) Miss A. Dawn H. Oliver on 'The Means and Ends of Constitutional Reform', (v) Dr Valentine Korah (Professor of Competition Law) on 'EEC Competition Policy — Legal Form or Economic Efficiency' (Inaugural Lecture), (vi) Sir Ralph Gibson (A Lord Justice of Appeal, formerly Chairman of the Law Commission) on 'The Achievements of the Law Commission', (vii) Professor Bin Cheng on 'The Contribution of Air and Space Law to the Development of International Law', (viii) Robert Stevens (Haverford College, Pennsylvania) on 'A View from the Lord Chancellor's Department of One Hundred Years of Law Reform'; lectures in Neurobiology were given by Professor Vernon B. Mountcastle (The Johns Hopkins University) on 'The Role of the Parietal Cortex in Visual Function'; and by Professor Gerald M. Edelman (Rockefeller University) on 'The Molecular Basis of Morphogenesis' (two lectures); an annual lecture in the Centre for Biochemical Engineering and Biotechnology was given by Professor M. Thoma (Institut für Regelungstechnik, University of Hanover) on 'Application of modern control for biotechnological processes'; public lectures were given by Mr Gary Schwartz (author of *Rembrandt: His Life, His Painting*) on (i) 'Rembrandt's Patrons among the Clans and Cliques of Holland', (ii) 'The Painter nearly Poet: Rembrandt and Dutch Literary Life' (two lectures); an Alexander Altmann Lecture was given by Professor Jonathan Frankel (The Hebrew University, Jerusalem) on 'The Making of Modern Jewish Politics: Patterns and Paradoxes'; a special public lecture was given by Dr A. D. Johnstone on 'What Giotto Found Out About Halley's Comet'.

Lunch-hour Lectures were given by Dr I. O. Angell (Computer Science) on 'Representing Reality with Computer Graphics'; Dr G. F. Bottazzo (The Middlesex Hospital Medical School) on 'Why Does the Body Reject its Own Organs?'; Dr S. Bown (Surgery) on 'Veni, Vidi, Vici, Per Via Naturalis. Lasers Oust Surgery'; Professor H. A. Brant (Obstetrics and Gynaecology) on 'Men in Childbirth'; Dr A. B. Buxton (Library, Archive and Information Studies) on 'The World's Information on Your Desk'; Mrs Magda M. Czigany (Library) on 'The Machine in Modern Art — Who's Afraid of the Big, Bad Wolf?'; Dr D. H. Davis (Physics and Astronomy) on 'Tracking Down Short-Lived Particles'; Professor J.McN. Dodgson (English Language and Literature) on 'Wrong Names in Domesday Book';

Professor M. D. A. Freeman (Laws) on 'Child Abuse — Do We Know Why it Happens?'; Dr Mary J. A. Fulbrook (German) on 'Solutions to German History? East and West Germany Compared'; Dr A. G. Gilbert (Geography) on 'Self-Help Housing: The Lot of the Poor'; Dr A. H. Goldstone (Haematology) on 'Can We Cure Leukaemia? The Role of Bone Marrow Transplantation'; Professor I. A. Harley (Photogrammetry and Surveying) on 'Hotine, Hart and Hottentots'; Professor B. A. Hepple (Laws) on 'Ten Years of the Sex Discrimination Act'; Dr R. A. Hudson (Phonetics and Linguistics) on 'The Case of the Naughty Pronoun'; Mr Dan Jacobson (English Language and Literature) on 'Kimberley Remembered: A Talk and Reading'; Dr J. S. Jones (Genetics and Biometry) on 'Nature or Nurture: Old Dogmas and New Ideas'; Dr T. W. Jones (Physics and Astronomy) on 'Are Protons Forever?'; Sir James Lighthill on 'Hydrodynamics of Hearing'; Dr R. Mason (Geological Sciences) on 'Mountain Chains: God's Jigsaw Puzzles?'; Mr A. N. Maxwell (History and Philosophy of Science) on 'How Can Universities Help Us Build a Better World?'; Dr M. J. H. Mogridge (Civil and Municipal Engineering) on 'Jam Yesterday, Jam Today and Jam Tomorrow? (Or How to Speed Up Traffic in Central London)'; Professor M. J. Morgan (Psychology) on 'Explaining Visual Illusions'; Mr P. Neagu (Slade School of Fine Art) on 'Catalytic Sculpture'; Dr N. J. Price (Geological Sciences) on 'Someone "Out There" is Throwing Stones at Us'; Dr P. Richards (Anthropology) on 'Hunger in Africa — New Approaches to Research and Development'; Mr J. M. Simmie (Bartlett School) on 'Long Waves, Shooting the Eye and Wipe Outs'; Dr O. G. Veljanovski (Economics) on 'Privatisation in the UK'; Mr S. J. Walton (Scandinavian Studies) on 'Why Do Ibsen's Main Characters Always Get it Wrong?'; Dr M. P. Weitzman (Hebrew and Jewish Studies) on 'The Use and Abuse of Computers in Biblical Research'; Professor J. E. C. T. White (History of Art) on 'Pieter Brueghel. Mountains and Men'; and films were presented by Chris Welsby (Slade School) (i) Seven Days (ii) Windmill (iii) Stream Line.

SUPPLEMENT

HONOURS AND DISTINCTIONS

In the New Year's Honours List Professor G. R. Elton, Regius Professor of Modern History in the University of Cambridge, a former student and a Fellow of the College, was created a Knight Bachelor. Dr K. P. Ball, Senior Lecturer in Community Medicine at The Middlesex Hospital Medical School, received the OBE, and Mr P. G. Luther, chief laboratory technician in the Department of Surgery, was awarded the British Empire Medal. Professor D. E. N. Davies, Pender Professor of Electrical Engineering and Head of the Department of Electronic and Electrical Engineering, received the CBE in the Queen's Birthday Honours List. Mr P. H. Halsey, former student of the College and Deputy Secretary at the Department of Education and Science, was awarded the CBE in the New Year's Honours List, while three former students of the College received the CBE during the year, Mr H. N. Conder, Partner in the Casson Conder Partnership, Mr D. A. Gray, lately Programmes Director of the British Geological Survey, and Miss Jean H. Thompson, Chief Statistician at the Department of Health and Social Security.

The following were elected Fellows of the College in 1985-86:
Professor A. G. Alexander, Professor of Conservative Dentistry and Dean of the Dental School; Professor P. G. Burke, Professor of Mathematical Physics at Queen's University, Belfast; Miss Margaret Drower, Honorary Research Associate in the Departments of History and Egyptology and Emeritus Reader in Ancient History; Mr F. C. Gee, Partner and Director of Cremer and Warner, Consulting Engineers and Scientists, a member of the Councils of the Old Students' Association and of the Friends of UCL, as well as the College Council; Mr C. Herzog, President of Israel since 1983 and a former Ambassador to the United Nations; Professor D. Noble, Burton-Sanderson Professor of Cardiovascular Physiology in the University of Oxford and formerly Assistant Lecturer at UCL; Mr E. Paolozzi, sculptor, printmaker, draughtsman and educationalist and Honorary Director of the Royal Academy of Art; Professor S. Piggott, one of the founding fathers of modern British archaeology and former Abercromby Professor of Prehistoric Archaeology at the University of Edinburgh; Mr A. J. Shepperd, Chairman and Chief Executive of the Wellcome Foundation; Professor M. G. Smith, Franklin M. Crosby Professor of the Human Environment at Yale University and former Head of the Department of Anthropology at UCL.

The following were elected Honorary Fellows of the College:
Professor E. A. Ash, Rector of the Imperial College of Science and Technology and former Head of the Department of Electronic and Electrical Engineering at UCL; Sir David Innes Williams, Director of the British Postgraduate Medical Federation and Vice-President of the Royal College of Surgeons.

The Royal Society announced the election of Fellows of the Royal Society in March and this included Professor G. Burnstock, Professor of Anatomy and Head of the Department of Anatomy and Embryology, and Dr C. Ganellin, Vice-President (Research) of Smith, Kline and French Limited and Smith, Kline and French Professor-elect of Medicinal Chemistry in the Department of Chemistry at UCL.

Professor H. G. T. Maehler, Professor of Papyrology and Acting Head of the Department of Greek, and Professor J. Z. Young, Honorary Fellow of the College, were elected Fellows of the British Academy.

The Fellowship of Engineering elected Sir Dennis Rooke, Fellow of the College, as its President for five years, and Sir Andrew Huxley, Honorary Fellow of the College, and Professor K. J. Ives, Head of the Department of Civil and Municipal Engineering, as Fellows.

Honorary degrees were conferred upon the following:
Professor Sir Randolph Quirk (Fellow)—the Open University and the University of Essex; Professor A. L. Cullen (Honorary Research Fellow)—University of Kent; Dr Jonathan Miller (Fellow)—University of St Andrews; Professor A. D. Momigliano (Emeritus)—University of Marburg; Professor J. Sandler (Freud Memorial Professor of Psychoanalysis and Director of the Psychoanalysis Unit in the Department of Psychology)—Clark University, Massachusetts, USA.

Honours, awards and appointments were conferred on members or former members of the College as follows:
Professor D. E. N. Davies, Pender Professor of Electrical Engineering and Head of the Department of Electronic and Electrical Engineering—appointed to the Science and Engineering Research Council; Dr J. R. Ellis, Honorary Research Fellow in the Department of Botany and Microbiology—the Foster Memorial Plaque, the highest award of the British Irish Society, for his outstanding work on the irises of the *Evansia* series; Professor Sir Lawrence Gowing, Emeritus Professor of Fine Art—appointed to the Samuel K. Kress Professorship at the National Gallery of Art, Washington DC, for 1986-87; Professor Sir John Hale, Professor of Italian History—appointed a Trustee of the British Museum; Dr D. McNally, Assistant Director of the University of London Observatory and Senior Lecturer in the Department of Physics and Astronomy—elected Assistant General Secretary of the International Astronomical Union for the period 1985-88; Professor A. D. Momigliano—awarded the International Premio Viareggio, for his contribution to scholarship; Dr D. Nelken, Lecturer in the Department of Laws—awarded the American Sociological Association's Distinguished Scholar Award for his book *The Limits of the Legal Process;* Professor E. A. Power, Professor of Mathematics—elected a Fellow of the American Physical Society; Dr K. Sultana Saeed, Lecturer in the Department of Laws—appointed a member of the Parole Board; Professor J. Sandler, Freud Memorial Professor of Psychoanalysis in the Department of Psychology—Ballard Lecturer at Columbia University, New York; Thank-Offering to Britain Lecturer at the British Academy; awarded the Lily Gondor

Memorial Prize for Contributions to Child and Adolescent Development, Postgraduate Center for Mental Health, New York University; Professor R. Wilson, Perren Professor of Astronomy—appointed to the Science and Engineering Research Council and to the Natural Environment Research Council and jointly awarded the Royal Astronomical Society Herschel Medal for his fundamental contribution to the success of the international ultraviolet Explorer satellite; Dr J. G. Yates, Reader in Chemical Technology in the Department of Chemical and Biochemical Engineering—elected a corporate member of the Institute of Chemical Engineers.

The following members of the College were elected to serve as members of the Senate of the University of London for the period 1 September 1985 to 31 August 1989:

Professor S. Greenbaum (English Language and Literature), Mr A. D. E. Lewis (Laws), Dr S. R. Montgomery (Mechanical Engineering), Dr W. Stephenson (Mathematics). Professor M. Hobsley of The Middlesex Hospital Medical School was also elected to the Senate.

APPOINTMENTS

In the 1985-86 session a number of professorial appointments were made: Professor G. R. Stewart, Professor of Botany and Head of the Department at Birkbeck, was appointed Quain Professor of Botany and Head of the Department of Botany and Microbiology. Professor D. E. N. Davies, Professor of Electrical Engineering at the College, was appointed to the Pender Chair of Electrical Engineering in succession to Professor E. A. Ash, and also to the Headship of the Department of Electronic and Electrical Engineering. Professor J. B. Davies, Professor of Electrical Engineering by conferred title, was appointed to the Chair of Electrical Engineering vacated by Professor D. E. N. Davies on his appointment to the Pender Chair. To succeed Professor H. Rang, Professor D. Colquhoun, Professor of Pharmacology by conferred title, was appointed to the established Chair of Pharmacology. Professor N. F. Watson, who held the Bartlett Chair of Architecture, was appointed to the Haden-Pilkington Chair of Environmental Design and Engineering. In succession to Professor M. A. Screech, Professor Annette C. M. Lavers, Professor of French Language and Literature by conferred title, was appointed to the Fielden Chair of French Language and Literature and to the Headship of the Department. Professor J. W. Mullin, Professor of Chemical Engineering, was appointed to the Ramsay Memorial Chair of Chemical Engineering and to the Headship of the Department of Chemical and Biochemical Engineering in succession to Professor P. N. Rowe. A new Chair of Italian History was established and Professor Sir John Hale, Professor of Italian, was appointed to the Chair. The Chair of Pharmacology, formerly held by Professor F. Hobbiger and tenable at The Middlesex Hospital Medical School, was filled by the

appointment of Professor D. A. Brown, Wellcome Professor of Pharmacology at the School of Pharmacy, and made jointly tenable at The MHMS and UCL.

Professor J. A. Campbell, Professor of Computer Science at the University of Exeter, was appointed to the vacant Chair of Computer Science, and Dr P. C. Treleaven, Principal Scientific Officer in the Department of Computer Science at the University of Reading, was appointed to a newly established second Chair of Computer Science. Professor P. H. George, Professor of Fine Art by conferred title, was appointed to the Slade Chair of Fine Art in succession to Sir Lawrence Gowing.

The University approved the conferment of the following titles of Professor: Dr J. G. A. Croll (Structural Engineering); Dr J. B. Davies (Electrical Engineering); Dr Wendy E. Davies (History); and Dr J. M. Dodgson (English).

The title of Reader was conferred upon the following:
Dr D. G. Allen (Physiology); Dr W. F. Bynum (History of Medicine); Dr R. Collins (Mechanical Engineering); Dr M. J. Daunton (History); Dr A. J. Deeming (Chemistry); Dr Gertrude Falk (Biophysics); Dr A. J. Grass (Fluid Mechanics); Dr J. E. Guest (Planetary Science); Mr W. R. G. Hillier (Architecture); Dr D. M. Last (Anthropology); Dr Rhona Mirsky (Developmental Neurobiology); Dr A. M. O'Connor (Geography); Dr F. L. Pearce (Chemistry); Dr E. D. Saggerson (Biochemistry); Dr Jane E. Sayers (Administrative History and Diplomatic); and Dr Deirdre M. Wilson (Linguistics).

The College made a number of distinguished appointments to Visiting Professorships in the course of the session:
Mr I. Craft, Director of Fertility and Obstetric Studies at the Humana Hospital Wellington, London (Obstetrics and Gynaecology); Professor J. B. Field, Professor at Baylor College of Medicine (Experimental Pathology); Dr N. Friedman, formerly Deputy Director of the Hudson Institute and an internationally known expert in the field of operational analysis relating to warship design and development (Mechanical Engineering); Dr J. W. C. Gates, formerly at the National Physical Laboratory and currently a private consultant to manufacturers of instrumentation in electro-optics and microcircuit technology (Photogrammetry and Surveying); Professor N. B. Gilula, Professor of Cell Biology at Baylor College of Medicine (Anatomy and Embryology); Dr J. E. Harries, Associate Director for Space, Radio and Astronomy at the SERC Rutherford Appleton Laboratory (Physics and Astronomy); Dr D. A. Hopkinson, Director of the MRC Biochemical Genetics Unit (Genetics and Biometry); Professor P. N. Mathur, formerly a Professor at the University College of Wales at Aberystwyth (Economics); Professor J. Meleze-Modrzejewski, Professor of Ancient History at the Sorbonne (Greek); Professor A. Minkowski, a leading figure in French academic and public life and a founder of modern neonatal paediatrics (Paediatrics); Mr Boris Podrecca, one of the leading practitioners and theorists of

the 'Viennese School' of Architecture, was appointed Banister Fletcher Visiting Professor in the Bartlett School of Architecture and Planning; Dr R. Wrigglesworth, Head of Medicinal Chemistry and Deputy Director of the Sandoz Institute for Medical Research (Chemistry); Dr K. Young, Senior Fellow at the Policy Studies Institute, London (Bartlett School of Architecture and Planning).

The following new appointments to Headship of Department were made: Professor J. W. Mullin (Chemical and Biochemical Engineering); Dr A. M. Garcia (Spanish and Latin American Studies); Professor G. R. Stewart (Botany and Microbiology); Professor D. E. N. Davies (Electronic and Electrical Engineering); Professor P. George (Slade School of Fine Art); Professor N. F. Watson (Bartlett School of Architecture and Planning).

A number of appointments and elections to College offices were made as follows:
Dr A. M. Cruise (Deputy Director of the Mullard Space Science Laboratory); Dr Margo Goldspink (Director of the Academic Services Unit); Mr D. Goodman (Industrial Liaison Officer in the Academic Services Unit); Dr D. Sturgeon (Faculty Tutor in the Faculty of Clinical Sciences); Dr F. Rosen (General Editor and Director of the Bentham Project); Mr M. Collins (Director of Planning Studies); Dr S. R. Montgomery (Director of External Relations); Mr P. Craggs (Director of the Foreign Study Office); Dr D. P. Brenton (Sub-Dean of the Faculty of Clinical Sciences).

CONFERMENT OF EMERITUS TITLES

The following staff received the title of Emeritus Professor or Reader:
Professor I. R. Christie, Emeritus Professor of British History; Professor Patricia H. Clarke, Emeritus Professor of Microbial Biochemistry; Professor L. Castillejo, Emeritus Professor of Physics; Professor N. F. Dixon, Emeritus Professor of Psychology; Professor G. V. Groves, Emeritus Professor of Physics; Professor K. O. Kemp, Emeritus Professor of Civil Engineering; Professor K. A. Kermack, Emeritus Professor of Vertebrate Palaeontology; Professor D. R. Laurence, Emeritus Professor of Pharmacology and Therapeutics; Professor R. J. Loewe, Emeritus Professor of Hebrew and Jewish Studies; Professor D. J. Millen, Emeritus Professor of Chemistry; Professor R. O'Neil, Emeritus Professor of Oral Surgery; Professor A. D. G. Smart, Emeritus Professor of Urban Planning; Professor K. W. Swart, Emeritus Professor of Dutch History and Institutions; Professor C. A. Vernon, Emeritus Professor of Chemistry; Dr M. Coffey, Emeritus Reader in Greek and Latin; Dr D. A. W. Edwards, Emeritus Reader in Gastroenterology; Dr H. Heath, Emeritus Reader in Biochemical Pathology; Dr M. D. Johnson, Emeritus Reader in Chemistry; Dr O. C. J. Lippold, Emeritus Reader in Physiology; Dr B. S. Massey, Emeritus Reader in Mechanical Engineering; Dr Pauline M. Meadow, Emeritus Reader in Biochemistry; Dr P. C.

Wason, Emeritus Reader in Psycholinguistics; Dr Mary Whitear, Emeritus Reader in Zoology.

ROYAL SOCIETY RESEARCH FELLOWSHIPS

Of a total of 18 Royal Society Research Fellowships awarded in 1985-86 the College received three. Fellowships were awarded to Dr B. M. Chain, Department of Zoology and Cell Biology, Dr C. R. Green, Department of Anatomy and Embryology, and Dr K. O. Mason, Department of Physics and Astronomy.

RETIREMENTS

Professor J. H. Burns retired in September 1986 after more than 25 years' service in the Department of History. After graduating from the University of Edinburgh in History and from Oxford in PPE, he became Lecturer in Political Theory at the University of Aberdeen in 1947, subsequently becoming Head of the Department of Politics there. He joined the Department of History at UCL in 1961 as the first holder of the newly-established Readership in the History of Political Thought. The title of Professor of the History of Political Thought was conferred upon him in 1966. He was an inspiring and devoted teacher who will be remembered warmly by many generations of History students. He also revealed himself to be a scrupulous and exacting scholar, who made important contributions both to the history of the Scottish Reformation and to the study of political ideas, especially those of John Stuart Mill and Jeremy Bentham. Shortly after joining the Department he was appointed General Editor of the Bentham Project, a post which he held until 1979. This major, long-term enterprise aims to produce a comprehensive, definitive edition of the works of Jeremy Bentham, much of whose massive correspondence, largely unpublished, is in two collections in University College and the British Library. The success of the enterprise is due in very large measure to Professor Burns's unstinting efforts and scholarly leadership. During his tenure of the General Editorship five volumes of Bentham's *Works* were published, three of them edited in part by himself. These volumes, an invaluable source for understanding Bentham's ideas on law and legal philosophy, ethics and political theory, public administration and social policy, confirmed the international reputation Professor Burns had already won. Shortly before his retirement he was, to general acclaim, elected President of the International Bentham Committee.

Professor Burns is held in great affection by colleagues not only in the Department and the College but in the University and the historical world generally. He served as Head of the Department of History from 1970 to 1975 and as Chairman of the Board of Examiners in History from 1968 to 1970. He was also Honorary Secretary of the Royal Historical Society from 1965 to 1970, a member

of the Council in 1977-78 and a Vice-President, 1979-82. It was, however, as the founding Father of the Beesly Society that Professor Burns rendered one of his greatest services. Established in 1972 the Society has filled an important gap in the intellectual and social life of the College with its thrice-yearly meetings addressed by scholars eminent in many fields of historical enquiry. Throughout the Society's existence Professor Burns has remained its presiding genius. The remarks with which he introduced speakers were memorable alike for sparkling wit and for learning lightly worn. His colleagues are delighted that his association with the life and work of the Department will continue with his appointment as Honorary Research Fellow and as Chairman of the Beesly Society.

This year marks the retirement of Professor Bin Cheng after 44 years in the College, first as an undergraduate, then a postgraduate, an Assistant Lecturer (1950-53), Lecturer (1953-62), Reader in International Law (1962-67) and, since 1967, Professor of Air and Space Law. He received a License en Droit from Geneva in 1966 and an LLD from London University in 1966. Born in Peking, Bin Cheng's father, Dr Cheng Tien Hsi, a Fellow of the College, was himself a student at UCL from 1912 to 1915, winning the Quain Prize in International Law in 1916.

Professor Cheng has made an immense contribution to International Law scholarship in general and a unique contribution to Air and Space Law. He was writing about satellite communications and hijacking, for example, in the mid-fifties, anticipating these problems, the implications of which were only appreciated by the public years later. In the seventies he was writing about remote sensing from space, liability for damage caused by space objects, and the Moon Treaty. He is author of the leading text on Air Law.

Bin Cheng's reputation is recognised internationally. He has received honours from Argentina, Brazil, Venezuela, Uruguay and China.

In 1980 he was elected a Fellow of the Royal Aeronautical Society.

Bin's colleagues will greatly miss his deep learning, his profound courtesy, and his kindness to friends and the countless students to whom he has always been completely dedicated.

Professor E. R. H. Ivamy retired at the end of last session whilst still at the height of his long academic career in law. His association with the College goes back to 1937 when he began as an undergraduate in the Faculty of Laws and, apart from the War years of 1939-45, has been uninterrupted ever since. Because of his lengthy war service, his undergraduate studies were not completed until after he was demobbed from the army with the rank of Staff Captain. His academic career took off in 1947 with his appointment in the Faculty of Laws at UCL as an Assistant Lecturer and no more than 13 years (and a lectureship and a Readership), later, he was appointed to a professorship. In 1969 he was elected a Fellow of the College. He instituted the study of Shipping Law and Marine Insurance Law at LLM level and established a reputation for the Faculty in these fields which is second to none

in the country and despite the mammoth increase in the level of overseas students' fees in the years since 1981, the number of applications from overseas applicants wishing to pursue these subjects has remained undiminished. His legal publications have been little short of monumental and include books on Show Business and the Law, Carriage of Goods by Sea, Marine Insurance, Shipping Law, Company Law and Partnership. As a teacher, he has combined a constantly updated depth of learning with sympathetic understanding of students' problems whilst at the same time instilling into his students a sense of the art — or mystery — of self-discipline which he so rigorously applies to himself. But despite his immense academic stature he has always remained someone whom it is a delight to encounter and exchange a few words with and who — even in the more eyebrow-raising days of the fifties — never sought to hide the fact that his greatest hobby has always consisted of model trains. This, and the preparation of new editions of his many books, will surely ensure that our wishes for a well-earned and happy 'retirement' will be fulfilled.

Derrick James joined the College as a Medical student in October 1940. After qualifying, he served as a Medical Officer with the Royal Air Force in the Far East. He returned to College in 1948 as a Lecturer in the Department of Anatomy under the inspired leadership of Professor J. Z. Young, FRS. In 1961 he was appointed to a Readership in Anatomy and to a personal Chair in 1970.

He started work on the mechanisms of healing of wounds in which he was associated with Michael Abercrombie. They demonstrated that the contraction of wounds was mediated by the repair tissue found within the wounds and involved the contraction of its cells. This led to an interest in the relationships between cells and in particular the behaviour of cells of the central nervous system in tissue culture. In recent years he has been concerned with the olfactory epithelium and studies of lectins and monoclonal antibodies.

From an early stage of his academic career, two prominent strands were discernible. One was an interest in medical education and the welfare of students, and the other a strong commitment to the work and life of the College. He was renowned for his generous hospitality to his colleagues and to his personal tutorial groups. Derrick James was Sub-Dean and Tutor to Students in the Faculty of Medical Sciences from 1961 to 1965. He became Dean of the Faculty in 1973 and served as Dean until he became Vice-Provost (Medicine) in 1978. In his capacity as Chairman of the Space Allocation Sub-Committee of Planning and Buildings Committee he demonstrated a remarkable skill in fitting a quart into a pint pot. He played a major role, from the outset, in the successful negotiations with The Middlesex Hospital Medical School which led ultimately to the agreement to form the University College and Middlesex School of Medicine within University College. He became Chairman of the 150th Anniversary Appeal, and in this capacity raised large sums of money for the College.

In this, his year of retirement, Derrick James has taken on the Presidency of the Old Students' Association. He has played an active part in many College Societies. He was President of the Crabtree Foundation on three occasions and has been President of the Natural Sciences Club.

Derrick has an enormous circle of friends in College, who recognise him as a wise, kindly and understanding person, always ready to help and advise. He will be greatly missed.

Dr Rolf Niedergerke, Reader in Biophysics, retired in September 1986. After qualifying in Medicine in 1945, followed by research in the universities of Göttingen and Berne, he came to the United Kingdom in 1952 to work with A. F. Huxley in Cambridge. Their study of the microstructure of skeletal muscle, together with the evidence provided by H. E. Huxley and J. Hanson, established the basis of the sliding filament model of muscle contraction. In 1954 he joined the newly created Department of Biophysics in UCL, and became first Lecturer and then Reader. Though his interest in skeletal muscle continued, his main work has been on the control of the heart beat. The characterisation (with H. C. Lüttgau) of the sodium-calcium antagonism in the frog heart, his pioneering studies of calcium fluxes associated with concentration, the demonstration (with R. K. Orkand) of the contribution of calcium to the cardiac action potential and his description (with S. G. Page) of the ultrastructure of the frog ventricle, were key developments. The collaboration with Sally Page was later extended to a study of the action of adrenaline and ATP on the heart, and this work, and his other achievements, were honoured by the award in 1981 of the first Rudolf Buchheim Prize of the German Pharmacological Society. His research has been characterised by precise experimental technique and analysis, and his advice on these matters was widely sought, and generously given. His postgraduate students received a particularly thorough training, reflected in the distinction they have already attained. Those privileged to know him well came to appreciate his unobtrusive kindliness and the breadth both of his scholarship and of his interests beyond science (especially in European history and art).

Professor C. Ambrose Rogers, FRS, who retired in September 1986, has had an association with University College London going back 48 years. He was an undergraduate in the Department of Mathematics from 1938, obtaining his BSc under wartime regulations in 1940 and returning as a research student of L. Bosanquet from interruption by war service. After appointments as Demonstrator, Assistant Lecturer, and Lecturer under Professor H. Davenport, who headed the Department in those post-war years (and whose influence on him Ambrose always considers pre-eminent), he was appointed to the Mason Chair at the University of Birmingham. Professor Rogers returned to University College as Davenport's successor in the Astor Chair of Mathematics in 1958. This position he held for 28 years.

Professor Rogers' retirement was marked, on 27 June 1986, by a set of three lectures on his contributions to mathematics. The titles of these lectures give an indication of his work over a wide field of pure mathematics. Professor Hlawka, from Vienna, talked 'On the contributions of C. A. Rogers to the Geometry of Numbers'; Professor Stone of Rochester, New York, spoke 'On the contributions of C. A. Rogers to General Topology'; and Professor Larman (UCL) lectured 'On the contributions of C. A. Rogers to Convexity and Measure Theory'. The powerful influence Professor Rogers has had on his many collaborators was apparent from these talks and from the number of guests who attended the subsequent dinner. The range and distinction of Professor Rogers' research students and collaborators form impressive evidence of his contribution to mathematics over and above his own research.

A University College man first and foremost, Rogers has been a member of numerous College committees and was, sequentially, joint Head, acting Head and Head of the Department of Mathematics. He was elected a Fellow of the College in 1963 and was Dean of the Faculty of Science from 1976 to 1979. Rogers was also active within the University of London, the London Mathematical Society, the British Association for the Advancement of Science, the Joint Mathematical Council, the Royal Society and in many endeavours within mathematical education.

Professor J. P. Stern retired from the Headship of the Department of German in 1986. He came to UCL in 1972 from Cambridge where he had been University Lecturer in German and Fellow of St John's College. Peter's time at UCL was one of astonishing scholarly productivity: a year after he came, his book *On Realism* appeared, and it was then followed by the study of Hitler, by two monographs on Nietzsche, and by the major analysis (written in collaboration with a classical colleague at London University) of Nietzsche's early thought entitled *Nietzsche on Tragedy*. Peter's scholarly eminence was recognised by two major awards: he received the Goethe Medal of the Goethe Institute and the Research Prize of the Humboldt Foundation. But Peter was never a cloistered scholar: he was tirelessly active as a guest lecturer both here and abroad. Moreover, he was no prima donna aloof from academic burdens, for he served as Chairman of the Board of Studies in Germanic Languages and Literatures and as Honorary Director of the Institute of Germanic Studies.

Peter will be sorely missed. Scholars of his calibre are, to put it mildly, hard to come by. And he has been an inspired and inspiring teacher. Peter managed to show generations of students the distinction of German literature — and also the many and troubling ways in which, in the years after the First World War, that distinction offered little resistance to Germany's slide into barbarism. To be taught by Peter was to experience the full challenge of great literature and to recognise that that challenge was something issued by and relatable to the cultural and spiritual concerns of a particular society at a particular historical time.

Mrs Hilda Farge joined the Refectory as a Counter Hand in the Salad Bowl in 1957; she also helped to run the Main Refectory and the North Room. In 1976 she was appointed Deputy Catering Officer and retired in December 1985 after 28 years of service to the College. Hilda will be remembered with affection by academic and non-academic staff alike. Her untiring devotion to her job and loyalty to the College, helped to lay the foundation for what must be one of the most successful Refectory services that the College has known.

Mrs Mavis Ford retired from the Salaries and Wages Section of Personnel on 31 July 1986 after 18 years' service in the College. She was a mainstay of the section and looked after the salary and wages payments of a great many staff, who have good reason to be grateful for her conscientious attention to their affairs.

The retirement of the College Services Officer, Ron Hill, leaves a serious gap in the General Administration Division of which the Services Department is a major part. After service in the Royal Air Force, Ron joined the College from the printing world in 1968 and prior to 1981, when he was appointed Services Officer, had already built up a distinguished record as College Publications Officer, a post which also incorporated responsibilities for printing when the Services Department was formed in 1978. As Services Officer, Ron was able to demonstrate his very considerable administrative capabilities to the full and he has progressively created an efficient and cohesive Department which provides a wide range of services to all parts of the College premises and to all members of the College community. Ron gave a lot to the College and was always prepared to meet new challenges. His colleagues will miss his company and clear analysis of many facets of College life.

John Bruckner joined the Library staff in 1962 from Cambridge University Library, having previously served in Budapest University Library. Par excellence, he is a bibliographer and has made many contributions to rare book librarianship, particularly his *Bibliographical catalogue of seventeenth-century German books published in Holland* (Mouton, 1971). As well as his work with the rare book collections, John has given valuable service to the College as a subject specialist, particularly in building up the modern language collections. By contrast, Audrey Sinnhuber's contribution has been as an administrator, indeed in the Library's chief administrative post, Secretary of the Library. This has involved Audrey in all major developments in the Library since she joined us in 1948. The Library Committee has benefited from her efficiency in producing papers and minutes, a task far more demanding and onerous than is generally appreciated. Audrey has also been responsible for the Library accounts, managing a budget which has grown in complexity as it has grown in size. John Townsend came to the Library first as a Student Assistant in 1957, then working in Leeds University Library and the British Museum before returning as Scandinavian subject-specialist in 1970. The dismay felt in the Scandinavian Department at the news of his early retirement is sufficient testimony to his work in building up the Scandinavian collections, in responding to

the needs of the Department, and in acting as Secretary to the Viking Society. Like John Bruckner, John Townsend is respected as a bibliographer and it is clear that his contributions to scholarship and to the life of the College will not cease with his formal retirement. Charles Twigge has made a contribution to several areas of the Library. He came in January 1963 as a specialist in classification and as a subject-specialist, and he was responsible for the establishment of the Law Library when the DMS Watson Building opened. He has also served as specialist in other subject areas, but it is as Chief Cataloguer that he will be best remembered. Charles Twigge's ability in cataloguing was clearly appreciated by Mr Scott at the time of his appointment, but it was in 1982 that his ability was really put to the test in the transition from manual to automated cataloguing procedures. That the Library catalogue not only survived this traumatic change but is developing as an even more useful tool for the work of members of the College is a tribute to the wise decisions made by Charles Twigge. Geoffrey Soar, who had taken half-time retirement in the previous session, decided to retire formally but continues to maintain the strength of the Little Magazines Collection in a post of Honorary Research Librarian. The Little Magazines Collection would not be the collection of national importance it is if it had not been for Geoffrey's dedication to building up and cataloguing the collection, involving much painstaking work in identifying and writing to editors of this ephemeral material.

For over thirteen years from her appointment in 1973 as Personal Assistant to the Provost Mrs Joan Nolan managed the Provost's office superbly and acted as a vital and most understanding intermediary between the Provost and all those within the College and elsewhere with whom the Provost is concerned. Three successive Provosts (Noël Annan, Harold Billett and James Lighthill) have benefited immeasurably from her tactful ways of ensuring that they fulfilled all their responsibilities and obligations in time, as well as from all her other special gifts in the areas both of administrative efficiency and of human relationships. A virtuoso on the telephone, Joan could always shatter all previous records for arranging *very* quickly a *very* early meeting with a *very* large number of *very* busy people! But this was just one of many exceptional qualities. Above all, as a supremely approachable Provost's Personal Assistant, Joan Nolan was known and greatly admired in a very wide range of areas of the College and of related institutions and carries with her the warmest good wishes of all her many admirers on her retirement.

Mr E. J. W. (Eddie) Norton came to the College in 1946 after service with the RAF in the Middle East and Italy. He was appointed Furnishings Officer in 1956 and held that post until the end of 1985. From 1982 to 1985 he worked part-time, finally handing over to Max Streets in January 1986. Eddie quickly established himself as an expert in the subject and was responsible for furnishing during the period of large capital projects in the 1960s. His advice was frequently sought

outside the College and he played a leading part in the setting up of the University of London Purchasing Group and the Conference on University Purchasing. His work took him regularly into all parts of the College and his helpful nature made him friends wherever he went. A very large gathering in December 1985 to mark his retirement demonstrated the respect and affection of his colleagues in the College.

RESIGNATIONS

Dr Joel Kahn resigned from the Department of Anthropology at the end of 1985 to take up a Chair in Anthropology and Southeast Asian Studies at Monash University, Australia. He was first appointed Lecturer at the College in 1973 after completing his first degree at Cornell University and his PhD at the London School of Economics. Joel Kahn rapidly became one of the mainstays of the Department, a very popular person with students and staff alike. His work in the fields of Third World underdevelopment and Southeast Asian studies was widely known and was recognised by his promotion to a Readership in Anthropology in 1984. Joel Kahn's combination of personal charm and intellectual commitment will be greatly missed by his colleagues at College, and he carries their best wishes for success in his new post.

Professor R. D. Martin resigned in August 1986 as Professor of Physical Anthropology to take up his new post as Professor of Anthropology at the University of Zurich, Switzerland. Professor Martin took his first degree and his DPhil in Zoology at Oxford. His postgraduate research in Germany and France led not only to his important early publications on the reproductive behaviour and evolution of tree shrews and lemurs but also to the fluent French and German he has since used to translate major works by Lorenz, Wickler, von Holst and Charles-Dominique, as well as many journal translations. Professor Martin first joined the Department of Anthropology at UCL in 1969 as Lecturer. Between 1974 and 1978 he was Senior Research Fellow at the Zoological Society of London Wellcome Institute of Comparative Physiology and Visiting Professor of Physical Anthropology at Yale University. In 1978 he returned to UCL as Reader in Physical Anthropology. He held a concurrent Visiting Professorship in Zoology at Birkbeck College and in 1982 became Professor of Physical Anthropology at UCL. His internationally known research on primate evolutionary biology behaviour, ecology and energetics has led to the publication of over 50 full papers, editorship of five research and reference volumes and his new book *Primate Origins*, as well as numerous popular scientific articles, reviews and commentaries. His charismatic academic leadership has built up the Physical Anthropology unit to its present strength and furthered the position of Biological Anthropology in the country as a whole. Professor Martin is a stirring lecturer (in three languages), a perceptive tutor and energetic supervisor whose insight and support have steered many a

postgraduate research project to a successful conclusion. Professor Martin's energy, enthusiasm and inspired displomacy in administrative matters will be sorely missed.

Mrs Magda Czigány resigned from the post of Deputy Librarian in order to take up the post of Librarian at Imperial College. Mrs Czigány joined the Library staff in 1962 and her obvious academic and administrative ability brought her promotion through several posts. She became well known to members of several departments in the Faculty of Arts through her work as a subject specialist, in which she exhibited high standards of service and made substantial improvements in the collections for which she was responsible. As Deputy Librarian Magda proved herself sensitive to the needs of a wide range of Library users across the College. To her administrative ability belongs much of the credit for the planning of the Bloomsbury Science Library and what has become known as the 'great summer move' of 1985.

OBITUARIES

After a very happy school life at Stonyhurst Mark Gretton, who died on 23 September 1985, was immediately thrust into active service in the grim fighting of the Korean War (1950-2). On leaving the army he spent a year as an undergraduate in Oxford (1952-3), a year which for him was a mistake. He then undertook casual labour and worked as a driver of a delivery van before coming in October 1955 as a freshman to University College, where he found an academic and personal satisfaction that had eluded him in Oxford. In the years immediately after his graduation in 1958, he held a research fellowship for a year at Harvard, continued his research and acted as temporary assistant at University College, and became an Assistant Lecturer at the University of Keele (1961-5). In 1965 he returned as Lecturer to the Departments of Latin and Greek at University College, where he remained until the end of his life.

For most of his time as Lecturer Mark was the devoted and revered Departmental Tutor, whose judgment was trusted implicitly by students and colleagues alike. He was a man of benign wisdom with a mind unusually rich in penetrating insights into human behaviour, of unfailing good humour and of an attitude of ironic detachment that was immediately deeply involved whenever it mattered. As a teacher he was both very demanding and kindly but intolerant of the slipshod and the pretentious. For him Greek philosophy, especially that of Plato, was not a mere research field, still less an academic syllabus, but a fundamental force for the quality of living. It was through philosophical thinking as well as a deep Christian belief and his personal experience of the horrors of warfare that he turned to peace commitments in politics. Mark's literary sensitivity also was finely tuned. He had a love for the words of great literature, Greek, Latin and English, relishing their sound and import like choice vintages; Thomas Traherne's *The*

Centuries appealed to both his literary and religious sensibilities. But his well stocked memory had a place also for verses of exquisite ribaldry.

Mark's death through an accident on his own land has seemed a sadly absurd curtailment of the human life of one who guided and enriched the lives of many others. He is survived by his wife, two sons and one daughter.

The untimely death of Mr Jack Rilley, BEM, just prior to his retirement, came as a sad end to a career which began in the Royal Marines and continued with Chesterton and Sons from 1950 to 1969. In 1969, Jack Rilley joined the College staff as a Beadle and rapidly became part of College life, serving in various areas of the College. He was particularly well known to those who attended a wide range of College functions at which he officiated with considerable panache, in spite of the long hours that were often involved. In 1984 his services were fully recognised by the award of the British Empire Medal, a proud occasion for Jack, his family, who also serve the College, and the College itself.

Mr David Tierney's untimely death on 8 June 1986 at the age of 50 shocked and saddened his many friends at University College. Born in Ireland, he spent five years after leaving school in the London office of the Provincial Bank of Ireland before becoming a student in the Department of Political Economy in 1963. He joined the staff of the Department of History as a Lecturer in Economic History in 1969 and was for several years Assistant Tutor to BSc(Econ) students. For more than a decade he undertook, along with his colleague, Negley Harte, the laborious task of compiling the list of publications in the economic and social history of Great Britain and Ireland, published in the *Economic History Review*. Specialising increasingly in Irish Economic History, Mr Tierney in 1980 introduced the first undergraduate course on that subject to be offered in a British university; it was an unqualified success and attracted large and growing numbers of students. Enormously knowledgeable about Ireland he was also an authority on Victorian religion and especially on nineteenth-century London ecclesiastical architecture. Despite having contracted a progressively crippling neurological condition he showed great dedication and courage in meeting his teaching commitments right up to his death. His colleagues will sorely miss his many services and his genial, urbane presence.

PUBLICATIONS* AND EXHIBITIONS

BY MEMBERS OF COLLEGE DEPARTMENTS
1 AUGUST 1985 – 31 JULY 1986

FACULTY OF ARTS

ANTHROPOLOGY

AIELLO, L. C. 1986. The relationships of the Tarsiiformes: a review of the case for the Haplorhini. In *Major Topics in Primate and Human Evolution*, 47–65. B. Wood, L. Martin and P. Andrews (editors). (Cambridge: Cambridge University Press).

BENDER, B. 1986. *An Introduction and Guide to the Archaeology of Normandy, Brittany and the Channel Islands*. (London: Faber & Faber.) 254 pp.

BURNHAM, P. (with Copet-Rougier, E. and Noss, P.) 1986. Gbaya et Mkako: contribution ethno-linguistique à l'histoire de l'Est-Cameroun. *Paideuma*, vol. 32, 87–128.

FOXHALL, L. 1986. Subsistence and survival: peasant farming in ancient and modern Greece. *History Today*, vol. 36 (July), 35–43.

HARRIS, R. 1986 (re-print of 1972) *Prejudice and Tolerance in Ulster: a study of neighbours and 'strangers' in a border community*. (Manchester: Manchester University Press.) 234 pp.

HOMEWOOD, K. (with Hurst, A.) 1986. Comparative ecology of pastoralist livestock in Baringo, Kenya. *Pastoral Development Network Paper 21b*. (London: Overseas Development Institute.) 41 pp.

HOMEWOOD, K. (with Rodgers, W.) 1986. Cattle dynamics in a pastoralist community in Ngorongoro, Tanzania during the 1982–3 drought. *Agricultural Systems*, vol. 22, no. 1, 35–51.

HOMEWOOD, K. (with Rodgers, W.) 1985. Tanzania's newest primate. *Animal Kingdom*, vol. 88, no. 5, 14–77.

KAPFERER, B. (Editor.) 1985. Postscript. In *The Power of Ritual* (New edition). Special Issue No. 1 *Social Analysis*.

KAPFERER, B. 1986. Foreword. In *Creating Culture*. Diane Austin (editor) (Allen and Unwin).

KAPFERER, B. 1986. Pragmatic power and the transcendent ideal: sorcery and state Buddhism in Sri Lanka. Presented at *Conference in memory of the late Professor Chandra Jayawardena, Sydney, 25–27 April 1986*.

KAPFERER, B. 1986. Evil and the State. Paper presented to *Wennmier-Gren Symposium, 'History and Symbolism', Morocco, July 1986*.

LAST, M. 1985. The early kingdoms of the Nigerian savanna. In *History of West Africa* (3rd edition), vol. 1, 176–224. J. F. A. Ajayi and M. Crowder (editors). (London: Longman).

LAST, M. (with Brenner, L.) 1985. The role of language in West African Islam. *Africa*, vol. 55, no. 4, 432–446.

* The expression 'publications' includes all forms of medium, provided the item is generally available to the public and is a work of original scholarship or research.

LAST, M. (with Boyd, J.) 1985. The role of women as 'agents religieux' in Sokoto. *Canadian Journal of African Studies,* vol. 19, no. 2, 283–300. Also in *Les défricheurs de l'Islam: Islamic leaders in West Africa,* 283–300. B. Jewsiewicki and J-L Triaud (editors). (Quebec: Editions Safi).

MARTIN, R. D. 1985. Primates: a definition. In *Major Topics in Primate and Human Evolution,* 1–31. B. A. Wood, L. B. Martin and P. Andrews (editors). (Cambridge: Cambridge University Press).

MARTIN, R. D. 1986. Are fruit bats primates? *Nature* (News and Views), no. 320, 482–483.

MILLER, D. 1985. *Artefacts as Categories: a study of ceramic variability in Central India.* (Cambridge: Cambridge University Press.) 253 pp.

RICHARDS, P. 1986. *Coping with Hunger: hazard and experiment in an African rice farming system.* (London: George Allen & Unwin.) 175 pp.

RICHARDS, P. (with Mabogunje, A. L.) 1986. Land and people: models of spatial and ecological processes in West African history. In *History of West Africa* (3rd edition), vol. 1, 5–47. J. F. A. Ajayi and M. Crowder (London: Longman).

ROWLANDS, M. 1986. Exclusionary tactics in the logic of collective dynamics. *Critique of Anthropology,* vol. 5, no. 2., 47–69.

CLASSICAL ARCHAEOLOGY

COLDSTREAM, J. N. 1985. The Geometric and Archaic Periods. In *Archaeology in Cyprus 1960–1985,* 47–59. V. Karageorghis, (editor). (Nicosia: A. G. Leventis Foundation).

JOHNSTON, A. W. 1985. A fourth century graffito from the Kerameikos. *AM,* band 100, 293–307.

DUTCH

HERMANS, T. J. (Editor.) 1985. *Second Hand. Papers on the theory and historical study of literary translation.* (Antwerp: Vlaamse Vereniging voor Algemene en Vergelijkende Literatuurwetenschap.) 200 pp.

HERMANS, T. J. (Editor and translator.) 1986. *Hugo Claus, selected poems 1953–1973.* (Portree: Aquila.) 101 pp.

HERMANS, T. J. 1985. Vondel on translation. *Dutch Crossing,* vol. 26, 38–72.

HERMANS, T. J. 1985. Kunstfluitersgedoe. Kroniek van de poëzie. *Neerlandica extra muros,* vol. 45, 67–71.

HERMANS, T. J. 1986. De zekerheid der dingen die men niet ziet. Kroniek van def poëzie. *Neerlandica extra muros,* vol. 46, 33–37.

HERMANS, T. J., VINCENT, P. F. (with Vandeputte, O.) 1986. *Dutch. The language of twenty million Dutch and Flemish people* (3rd edition). (Rekkem: Ons Erfdeel.) 64 pp.

MEIJER, R. P. 1986. Herinneringen, verbeeldingen, verbeelde herinneringen. *Neerlandica extra muros,* vol. 46, 26–32.

BLUNDELL, R. W. and WALKER, I. (Editors.) 1986. *Unemployment, Search and Labour Supply* (Cambridge: Cambridge University Press.) 339 pp.

BLUNDELL, R. W., MEGHIR, C., SYMONS, E. and WALKER, I. 1986. A labour supply model for the simulation of tax and benefit reforms. *Ibid.*, 267–293.

BLUNDELL, R. W. and SMITH, R. J. 1986. An exogeneity test for a simultaneous equation Tobit model with an application to labour supply. *Econometrica,* vol. 54, 679–686.

BLUNDELL, R. W. and WALKER, I. 1986. A life-cycle consistent model of family labour supply using cross-section data. *Review of Economic Studies*. Special Econometrics Issue, July.

BLUNDELL, R. W. and MEGHIR, C. 1986. Selection criteria for a micro-econometric model of labour supply. *J. of Applied Econometrics,* vol. 1, 55–80.

CATEPHORES, G. (with Tzannatos, Z.) 1986. Trade Unions in Greece: 1949–81 and 1981–3. In *Socialism in Greece,* 130–141. Z. Tzannatos (editor). (London: Gower Press).

CHICK, V. 1985. Monetarism. In *The Social Science Encyclopaedia,* 533–4. Adam and Jessica Kuper (editors). (London: Routledge and Kegan Paul).

CHICK, V. 1985. Monetary Policy. *Ibid.*, 534–35.

CHICK, V. 1985. Quantity theory of money. *Ibid.,* 537–38.

GOODMAN, D. E. 1985. Some implications of biotechnology for the agriculture of developing countries. In *Biotecnologia e Sociedade: O baso Brasileiro.*, 66–91. G. Martine and C. de M. Castro (editors). (Sao Paulo: ALMED).

GOODMAN, D. E. 1986. Rural economy and society in Brazil since 1945. In *A Transicao Incompleta: Brasil desde 1945, Volume I,* 113–173. E. Bacha and H. S. Klein (editors). (Rio de Janeiro: Paz e Terra).

GOODMAN, D. E. (with Redclift, M. R.) 1985. Capitalism, Petty Commodity Production and the Farm Enterprise. *Sociologia Ruralis,* Vol. 25 (3–4), 231–247.

GOODMAN, D. E. (with Sorj, B. and Wilkinson, J.) 1985. Agroindustry, public policy and rural social structures: recent analyses of Brazilian agriculture. (Translation) *Revista de Economia Politica,* vol. 5 no. 4. 31–55.

HEADY, C. J. (with Mitra, P. K.) 1985. A computational approach to optimum public policies. In *Economic equilibrium: model formulation and solution,* 95–120. A. S. Manne (editor). (Amsterdam: North Holland).

LAL, D. 1985. *The Poverty of 'Development Economics'.* (Cambridge, Mass: Harvard University Press). 153 pp.

LAL, D. (with Collier, P.) 1986. *Labour and Poverty in Kenya, 1900–1980.* (Oxford: Clarendon Press). 288 pp.

LAL, D. (with Wolf, M.) (editors) 1986. *Stagflation, Savings and the State – perspectives on the global economy.* (New York: Oxford University Press.) 402 pp.

LAL, D. (with Wolf, M.) 1986. Debt, deficits and distortions. *Ibid.* 239–291.

LAL, D. 1985. Accounting prices for Jamaica. *Social and Economic Studies,* vol. 28, no. 3, 534–582.

LAL, D. 1985. Nationalism, socialism and planning. Influential ideas in the south. *World Development,* vol. 13, no. 6, 749–759.

LAL, D. (with van Wijnbergen, S.) 1985. Government deficits, the real interest rate and LDC debt: on global crowding out. *European Economic Review,* vol. 29, 157–191.

LAL, D. 1985. The real exchange rate, capital inflows and inflation: Sri Lanka 1970–82. *Weltwirtschaftliches Archiv,* Band 121, Heft 4, 687–702.

MARKANDYA, A. (with Abelson, P. W.) 1985. The interpretation of capitalized hedonic prices in a dynamic environment. *J. of Environmental Economics and Management,* vol. 12, 195–206.

MARKANDYA, A. and PEMBERTON, M. (1985). Medium-term planning in oil-based economies: a case study of Kuwait. *OPEC Review,* vol. IX, no. 4, 351–368.

PEARCE, D. W. (with Webb, M.) 1985. *The Economic Benefits of Power Supply.* (Washington DC: The World Bank.). 226 pp.

PEARCE, D. W. 1986. Efficiency and distribution in corrective mechanisms for environmental externality. In *Distributional Conflict in Environmental Resource Policy,* 15–37, A. Schnaiberg, K. Zimmerman and N. Watts (editors). (London: Gower Press).

PEARCE, D. W. 1985. Resource scarcity and economic growth in poor developing countries: missing links in Simon's cornucopian philosophy. *Futures,* vol. 17, no. 5, 440–445.

PEARCE, D. W. 1985. Historical perspective and environmental cost benefit analysis: a comment on Doeleman. *Futures,* vol. 17, no. 6, 672–675.

PEARCE, D. W., WESTOBY, R. 1985. Energy prices and economic development. *Quarterly Energy Review,* no. 4, 2–5.

PIGATO, M. A. (with Cottarelli, C.) 1985. Liability management, monetary policy and credit control. (In Italian). *Rassegna Economica,* no. 4, 967–991.

SKOTT, P. 1985. Increasing returns and involuntary unemployment: is there a connection? *J. of Post Keynesian Economics,* vol. 7, 395–402.

SKOTT, P. 1985. Vicious circles and cumulative causation. *Thames Papers in Political Economy,* Summer, 1–22.

SKOTT, P. 1986. On general equilibrium theory, rationality and the costs of spurious generality. *British Review of Economic Issues,* vol. 8, 29–50.

VELJANOVSKI, C. (with Yarrow, G., and others) 1985. *The Effects on other Media of the Introduction of Advertising on the BBC.* (London: Her Majesty's Stationery Office). 54 pp.

VELJANOVSKI, C. 1985. The role of economics in the common law. *Research in Law and Economics,* vol. 7, 41–64.

VELJANOVSKI, C. 1985. Economic theorising about tort. *Current Legal Problems (1985),* 117–140.

VELJANOVSKI, C. 1986. The economics of criminal law and procedure. *Coexistence,* vol. 23, 137–153.

VELJANOVSKI, C. 1986. An institutional analysis of futures contracting. In *Futures Markets: Their Establishment and Performance,* 30–49. B. A. Goss (editor). (London: Croom Helm).

VELJANOVSKI, C. (with Harris, D.) 1986. The use of economics to elucidate legal concepts – the Law of Contracts. In *Contract and Organisation: Legal Analysis in the Light of Economic and Social Theory,* 109–120. T. Daintith and G. Teuber (editors). (Berlin: W. de Gruyter).

VELJANOVSKI, C. (with Harris, D.) 1985. Liability for economic loss in Tort. In *The Law of Torts: Policies and Trends,* 45–72. H. Beale and M. Furmston (editors). (London: Duckworths).

VELJANOVSKI, C. 1986. Legal theory, economic analysis and the Law of Torts. In *Common Law and Legal Theory,* 215–237. W. Twining (editor). (Oxford: Basil Blackwell).

ADAMS, B. G. (with Jaeschke, R. L.) 1986. A silver plume from a statue of Min. *Discussions in Egyptology*, vol. 4, 7–13, 1 fig.

CAMINOS, R. A. 1986. Wadi Schatt er-Rigale. In *Lexikon der Ägyptologie*, VI, 1119–1120. W. Helck and W. Westendorf (editors). (Wiesbaden: Otto Harrassowitz).

CAMINOS, R. A. 9 April 1986. Radio Barcelona. Egyptian Exhibition 'Nofret the Beautiful: the Egyptian woman in the service of the gods'.

DROWER, M. S. 1986. Olga Tufnell, 1905–1985. An appreciation and an assessment. *Palestine Exploration Quarterly*, vol. 118, 1–3.

HALL, R. M. 1986. *Egyptian Textiles*. (Aylesbury: Shire Publications.) 72 pp.

HALL, R. M. 1985. A provenance for the Cambridge Ammenemes III head. *The Egyptian Bulletin*, no. 15, 20–23, 5 figs.

HALL, R. M. 1985. 'The Cast-Off Garments of Yesterday': dresses reversed in life and death. *Bulletin de l'Institut Français d'Archéologie Orientale (BIFAO)*, t.85, 235–243, 2 pls.

HALL, R. M. The fiscal structure of the Pharaohs: taxation, money, prices and wages in Ancient Egypt. *The Treasurer*, vol. 8, no. 5, 33–35, 3 figs.

HALL, R. M. 1986. The Steward of Thebes, Dhutymose 'Assistant of Maya'. *The Egyptian Bulletin*, no. 16, 4–7, 7 figs + cover plate.

HANKEY, V. (with Hankey, H.) 1985. A Mycenaean pictorial krater from Lachish, level VI. In *Palestine in the Bronze and Iron Ages: Papers in hónour of Olga Tufnell*, 88–99. Jonathan Tubb (editor). (London: Institute of Archaeology.)

HANKEY, V. 1986. Ceramic tradition. *Ceramic Review*, vol. 100, 14–16.

JANSSEN, J. 1985. Het geschenk des Konings. In *Macht en Majesteit. Idee en Werkelijkheid van het Vroege Koningschap*, 51–59. H. J. M. Claessen (editor). (Utrecht: De Bataase Leeuw).

JANSSEN, J. 1985. Two variant accounts? *Varia Aegyptiaca*, vol. 1, 109–112.

JANSSEN, J. 1986. A notable lady. *Wepwawet*, no. 2, 30–31.

JEFFREYS, D. G. 1985. *The Survey of Memphis I: the archaeological report*. (London: Egypt Exploration Society.) 127 pp., 63 figs.

JEFFREYS, D. G. 1986. Memphis: some problems of archaeological survey. In *Comptes-rendus de l'Institute de Papyrologie et d'Égyptologie à Lille 1986*. D. Valbelle (editor), Lille, August 1985. (Lille: Groupe Internationale pour l'Étude des Villes dans la Vallée du Nil.) 43–47.

JEFFREYS, D. G. 1986. Leonard Horner, 1785–1864. *UCL Bulletin*, vol. 6, no. 11, 5–7.

MARTIN, G. T. 1985. *Scarabs, Cylinders and other Ancient Egyptian Seals: a checklist of publications*. (Warminster: Aris & Phillips.) viii & 61 pp.

MARTIN, G. T. 1985. *The Tomb-Chapels of Paser and Ra'ia at Saqqara*. (London: Egypt Exploration Society.) xv, 63 pp., 37 pls.

MARTIN, G. T. 1985. Notes on a canopic jar from Kings' Valley Tomb 55. In *Mélanges Gamal eddin Mokhtar* 2, 111–124. (Cairo: Institut Francais.)

MARTIN, G. T. 1985. The tomb-chambers of Iurudef. In *4th International Congress of Egyptology, Munich, 26 August–1 September 1985. Abstract of papers*. Munich, 1985. p. 135.

MARTIN, G. T. 1985. Current research for higher degrees in Egyptology, Coptic and related studies in United Kingdom, no. 6. *Discussions in Egyptology*, vol. 2, 25–26.

MARTIN, G. T. 1985. Current research for higher degrees in Egyptology, Coptic and related studies in United Kingdom, no. 7. *Discussions in Egyptology*, vol. 3, 29.
ROBINS, R. G. 1986. *Egyptian Painting and Relief.* (Aylesbury: Shire Publications.) 64 pp.
ROBINS, R. G. 1985. Slopes of the double feathers of Amon-Re in the temple of Ramesses III within the great enclosure of Amun at Karnak. *Discussions in Egyptology*, vol. 2, 51–59.
ROBINS, R. G. 1985. The slope of the front of the royal apron. *Discussions in Egyptology*, vol. 3, 49–56.
ROBINS, R. G. 1985. Standing figures in the late grid system of the 26th dynasty. *Studien zur Altägyptischen Kultur*, vol. 12, 101–116.
ROBINS, R. G. Amarna grids 2: Treatment of standing figures of the queen. *Göttinger Miszellen*, vol. 88, 47–54.
SAMSON, J. 1985. *Nefertiti and Cleopatra.* (London: Rubicon Press.) xvi, 149 pp.
SMITH, H. S. (with Giddy, L. L.) 1985. Nubia and Dakhla Oasis in the late third millennium B.C.: the present balance of textual and archaeological evidence. In *Mélanges Offerts à Jean Vercoutter*, 317–330. F. Geus and F. Thill (editors). (Paris: Éditions Recherche sur les Civilisations).
SMITH, H. S. 1986. Sir Wallis Budge and his Fellows. *Christ's College Cambridge Magazine, Centenary Number, 1886–1986*, 18–21.
SMITH, H. S., JEFFREYS, D. G. 1985. The Survey of Memphis, 1983. *J. Egyptian Arch.*, vol. 71, 5–11, 1 pl.
SMITH, H. S., JEFFREYS, D. G. 1986. A Survey of Memphis, Egypt. *Antiquity* LX, no. 229, 88–95, 1 pl.
STEWART, H. M. 1986. *Mummy Cases and Inscribed Funerary Cones in the Petrie Collection.* (Warminster: Aris & Phillips.) ix, 83 pp., 25 pls.
UPHILL, E. P. 1986. The Mentuhotep Valley Temple. *Wepwawet*, no. 2, 38–39.

ENGLISH LANGUAGE AND LITERATURE

ARMSTRONG, T. D. 1985. An Old Philosopher in Rome: George Santayana and his visitors. *JAS*, vol. 19, no. 3, 349–368.
ARMSTRONG, T. D. 1985. Janet and Jason. Review of Janet Frame's recent work. *London Review of Books*, 5 December, 26.
ASHTON, Rosemary, 1986. *Little Germany: Exile and Asylum in Victorian England.* (Oxford: Oxford University Press.) 304 pp.
ASHTON, Rosemary, 1986. Introduction to Susan Ferrier, *Marriage.* (London: Virago Press.) 16 pp.
DANIELL, D. J. 1985. Buchan and 'The Black General'. In *The Black Presence in English Literature*, 135–153. David Dabydeen (editor). (Manchester: Manchester University Press).
DANIELL, D. J. 1986. Shakespeare. In *The Year's Work in English Studies Vol. 64 1983*, 179–227. Laurel Brake (editor). (London: John Murray for The English Association).
DANIELL, D. J. 14 June 1985. Radio 4. Kaleidoscope.
DODGSON, J. McN. (General Editor). 1985–6. *Domesday Book.* (Chichester: Phillimore & Co.) *9. Devon, Parts 1 and 2*, C. and F. Thorn (editors), 2 vols., *25. Shropshire*, F. and C. Thorn (editors), *30. Yorkshire, Parts 1 and 2*, M. L. Faull and

M. Stinson (editors), 2 vols., *31. Lincolnshire, Parts 1 and 2,* P. Morgan and C. Thorn (editors), 2 vols., *34. Suffolk, Parts 1 and 2,* A. Rumble (editor), 2 vols.

DODGSON, J. McN. 1985. The Welsh element in the field-names of Cheshire. In *Giessener Flurnamen-Kolloquium 1984,* 154–164. Rudolf Schutzeichel (editor). Giessen, 1984. (Heidelberg: *Beitrage zur Namenforschung,* NF. Beiheft 23.)

DODGSON, J. McN. 1985. Some Domesday Personal-Names, mainly Post-Conquest. *Nomina,* vol. 9, 41–51.

DODGSON, J. McN. 1985. Dialects. In *The Right Word at the Right Time: a Guide to the English Langauge and How to Use it,* 177–180. J. E. Kahn (editor). (London: The Reader's Digest Association Ltd.)

GREENBAUM, S. (with Cooper, C.) (Editors.) 1986. *Studying Writing: Linguistic Approaches.* (Beverly Hills: Sage Publications.) 272 pp.

GREENBAUM, S. (with Whitcut, J.) 1986. *The Complete Plain Words by Sir Ernest Gowers* (3rd edition, revised). (London: HMSO). xi + 288 pp.

GREENBAUM, S. 1985. C. C. Fries as Grammarian. In *Towards an Understanding of Language: Charles Carpenter Fries in Perspective,* 85–104. P. H. Fries (editor). (Amsterdam: Benjamins.)

GREENBAUM, S. (with Meyer, C. and Taylor, J.) 1984. The image of the dictionary for American college students. *Dictionaries,* vol. 6, 31–52.

HORNE, F. P. 1985. Train loads of ammunition. *London Review of Books,* vol. 7, no. 14, 21–22.

HORNE, F. P. 1986. The editing of James's letters. *The Cambridge Quarterly,* vol. 46, no. 2, 126–141.

ILSON, R. (Editor.) 1985. *Dictionaries, Lexicography and Language Learning* (ELT Documents 120). (Oxford: Pergamon Press in association with The British Council). viii + 135 pp.

ILSON, R. (Consultant Editor.) 1985. *The Right Word at the Right Time: A Guide to the English Language and How to Use it.* (London: The Reader's Digest Association Limited.) 688 pp.

ILSON, R. (Editor.) 1986. *Lexicography: an emerging international profession* (Fulbright Papers 1). (Manchester: Manchester University Press in association with The Fulbright Commission, London.) xiv + 167 pp.

ILSON, R. 1986. British and American Lexicography. *Ibid.,* 51–72.

ILSON, R. 1985. Something new about *hopefully,* hopefully. *Times Educational Supplement,* 27 September 1985, p. 27.

ILSON, R. 1986. Blending up a new linguistic treat. *EFL Gazette,* No. 79, July, 7.

KARLIN, D. 1985. *The Courtship of Robert Browning and Elizabeth Barrett.* (Oxford: Oxford University Press.) 272 pp.

MILLER, K. 1985. Clarissa and Louisa: Richardson's novel and Lady Louisa Stuart's Memoire. *London Review of Books,* vol. 7, no. 19, 11–13.

MILLER, K. 1986. Andante Capriccioso: Cervantes and Smollet. *London Review of Books,* vol. 8, no. 3, 15–16.

NEWALL, VENETIA (Founder and Editor.) 1985. *International Folklore Review,* Vol. 4. (London: New Abbey).

NEWALL, VENETIA 1985. Die Gross-Stadt: Gesichtspunkte der empirischen Kulturforschung in England. In *Schriften des Museums für Deutsche Volkskunde* vol. 13, 127–132. T. Kohlmann and H. Bausinger (editors). (Berlin: Museum für Deutsche Volkskunde).

NEWALL, VENETIA 1985. Folklore and Cremation: The Presidential Address. *Folklore,* vol. 96. 139–155.
NEWALL, VENETIA 1985. Narrative as an image of cultural transition: portrait of an Asian storyteller. *Fabula,* vol. 26, 98–103.
NEWALL, VENETIA 1985. Masking in England. *New York Folklore,* vol. 11, 205–229.
QUIRK, R. (Editor, with Widdowson. H.) 1985. *English in the World.* (Cambridge: Cambridge University Press.) xi + 275 pp.
QUIRK, R. 1985. The English language in a global context. *Ibid.,* 1–6.
QUIRK, R. 1985. Natural language and Orwellian intervention. In *The English Language Today,* 48–54. S. Greenbaum (editor). (Oxford: Pergamon).
RUMBLE, A. R. (Editor.) 1986. *Domesday Book, 39: Suffolk.* (Chichester: Phillimore). 2. vols.
RUMBLE, A. R. 1985. The palaeography of the Domesday Manuscripts. In *Domesday Book: a Reassessment,* 28–49. P. H. Sawyer (editor). (London: Edward Arnold).
TROTTER, DAVID 1986. Modernism and Empire: reading *The Waste Land. Critical Quarterly,* vol. 28, 143–153.
WALKER, K. 1986. A discourse of the dissentions. Review of David Nokes *Jonathan Swift. A hypocrite reversed.* TLS, 4, 321, 24 January.
WEIS, R. J. A. 1985. Renaissance Drama: excluding Shakespeare; The Twentieth Century: Prose Drama. In *The Year's Work in English Studies, vol. 64. 1983.* 228–35; 471–77. Laurel Brake (editor). (London: John Murray for The English Association).
WOUDHUYSEN, H. R. (with Duncan-Jones, Katherine). 1985. Sixteenth-century and Shakespeare entries. In *The Oxford Companion to English Literature* (5th edition). Margaret Drabble (editor). (Oxford: Oxford University Press).

SLADE SCHOOL OF FINE ART

AIKEN, JOHN, *Solo Exhibition:*
Major commission from Northern Ireland Arts Council and DHSS for 40 metre frieze in gilded stone, Belfast City Hospital, 1986.
Group Exhibitions:
Artists from ROSC. Armstrong New Gallery, New York. 1985.
Arts Council Touring Exhibition of Works from their own Collection, various venues. 1986.
Works from the Collection of the Allied Irish Bank. Douglas Hyde Gallery, Trinity College Dublin. 1986.
BOWEN, RON, *Solo Exhibition:*
City: Two Views – the work of Oliver Bevan & Ron Bowen, Concourse Gallery, Barbican Arts Centre, June–July 1986.
Group Exhibition:
The Human Story, Commonwealth Institute, July 1985–86.
BRISLEY, STUART, *Group Exhibitions:*
Institute for Measurement and Control. Plymouth, Exeter. 1985.
Urban Weather. Bristol. 1985.
Hand Signals. Ikon Gallery, Birmingham. December 1985–January 1986.
Incidentally. Winchester School of Art. February 1986.
168 Helmsley Road. Laing Art Gallery, Newcastle. March 1986.
Living Art Exhibition. Dublin. December 1985.

CAMP, JEFFERY, *Solo Exhibition:*

Aldeburgh Festival. 1986.

Group Exhibitions:

'Proud and Prejudiced', selected by William Feaver. Twining Gallery, New York. 1985.

Peter Moores Liverpool Exhibition, selected by William Feaver. 1986.

20th Century British Artists and the Sea. Laing Art Gallery, Newcastle. 1986.

DAGLISH, PETER, *Group Exhibitions:*

3rd Humberside Printmaking Exhibition. Ferens Art Gallery, Hull. November/December 1985.

Art Bank Works. National Arts Centre, Ottawa/Ontario, Canada. December 1985–February 1986.

Royal Society of Painters-Etchers and Engravers. Bankside Gallery, London. February–March 1986.

Chelsea Box Prints. Angela Flowers Gallery, London. March 1986.

Inside Outside. Fine Art Dept. Gallery, Maidstone. March 1986.

Print '86. Concourse Gallery, Barbican Centre, London. March 1986.

Print and Text. Garden Gallery, Richmond, Surrey. May 1986.

3rd International Contemporary Art Fair. Olympia, London. May–June 1986.

21st Birthday Exhibition. P. M. C., Royal Festival Hall, London. June–July 1986.

The Camden Annual 1986. Camden Arts Centre, London. July 1986.

DOS SANTOS, BARTOLOMEU, *Solo exhibition:*

Oxford Gallery, Oxford. October 1985.

Group Exhibitions:

Galeria III, Lisbon. December 1985.

Rohtas Gallery, Islamabad. April 1986.

Galeria Zen, Oporto, Portugal. May 1986.

Glasgow Print Studio, Glasgow. May 1986.

O fantastico n arte portuguesa. C. A. M., Gulbenkian Foundation. April 1986.

III Exposicao de Artes Plasticas. Gulbenkian Foundation. April 1986.

GEORGE, PATRICK, *Group Exhibition:*

Human Interest, Fifty Years of British Art about people. Opening exhibition of the Corner House, Manchester. October–November 1985.

GOWING, LAWRENCE. *Group Exhibition:*

Royal Academy of Arts Summer Exhibition. June–August 1986.

HEAD, TIM, *Group Exhibitions:*

The Irresistible Object: Still life 1600–1985. City Art Gallery, Leeds. 1985. Imposters. Interim Arts, London & Cambridge Darkroom. 1985–86.

Works of Paper. Anthony Reynolds Gallery, London. 1986.

Lumiere. Centre Internationale d'Art Contemporain, Montreal, Canada. 1986.

HILLIARD, JOHN, *Group Exhibitions:*

Thought Objects. Cash-Newhouse Gallery, New York. 1985.

Hand Signals. Ikon Gallery, Birmingham. 1985.

Forty Years of Modern Art. Tate Gallery, London. 1986.

La Traversée du Paysage. Centre Cultural, Aragon. 1986.

HILLIARD, JOHN, 1985. The state of the art, Paul Bonowentura. *Metropolis Magazine,* no. 3.

HILLIARD, JOHN, 1986. Die Vorstellung Als Welt, Klaus Honnef. *Kunstforum,* no. 84.

HILLIARD, JOHN, July 1986. Interview with Marlene Schnelle-Schneyder, European Photography, Gottingen.

HOYLAND, JOHN, *Group Exhibitions:*
Compass Gallery, Glasgow. December 1985.
Minsky's Gallery, London. October 1985.
Northern Centre for Contemporary Arts, Sunderland. March 1986.
Paton Gallery, Long Acre, London. April 1986.
Dumfries and Galloway Arts Festival. April/May 1986.
Retrospective. Castlefield Gallery, Manchester. April/May 1986.
Royal Academy Summer Exhibition. May/August 1986.
Waddington Graphics 'Publishers of Contemporary Prints'. June/July 1986.
Designed sets and costumes for ballet 'Zansa', Ballet Rambert, Sadlers Wells, 1986.

HUGHES, MALCOLM, *Group Exhibitions:*
Masterpieces of the Avantgarde, Annely Juda Fine Art/Juda Rowan Gallery, London. November/December 1985.
Autumn Programme, Boundaries Exhibition.
Arbeitskreis, Exhibition, Exhibiting Space. London. 1985.
I.C.A.F. Exhibition. Annely Juda Fine Art, London. May 1986.
Galerie Hoffman. Friedberg, West Germany. May 1986.

JARAY, TESS, *Solo Exhibition:*
Designed and organised laying of Brick Paving Floor at Stoke-on-Trent Garden Festival, 1986.
Group Exhibitions:
4th Biennale of European Graphic Art. Baden-Baden, Germany. 1985.
One Per Cent. Levitt Bernstein Association, London. 1985.
Bradford International Print Biennale. April 1986.

JONES, STANLEY, *Group Exhibitions:*
British Prints, 1945–1960. Redfern Gallery. January/February 1986.
Print 86. Concourse Gallery, Barbican Centre, London. April/May 1986.
Printmakers Council Exhibition. Festival Hall Gallery. June/July 1986.

LEVERETT, DAVID, *Solo Exhibition:*
Jersey Arts Centre, St Helier. March 1986.
Group Exhibitions:
Camden Annual '85. Camden Arts Centre, London. August 1985.
Amnesty Exhibition. Peoples Gallery, London. September 1985.
3rd Humberside Print Exhibition. Humberside. November 1985.
Bradford International Print Biennale. April 1986.
Print Selection. Victoria and Albert Museum, London. July 1986.
Print '86. Barbican Centre, London. June 1986.

LOMAX, TOM, *Group Exhibitions:*
Blonde Fine Art, December 1985 and January 1986.
Olympia Art Fair, May 1986.

McFADYEN, JOCK, *Solo Exhibition:*
Blonde Fine Art, London. February 1986.
Group Exhibitions:
Human Interest, Cornerhouse, Manchester. October 1985.
Human Zoo. Nottingham Castle Museum. March 1986.
Bath Art Fair. March 1986.

London Art Fair, Olympia. February 1986.
Living Art (Ideal Homes), Olympia. May 1986.
Contemporary Art Society. Manchester City Art Gallery. 1986.
Cityscape. Arthur Anderson, London. July 1986.
Modern Art, It's a Joke. Cleveland Art Gallery. August–September 1986.
Contrarywise. Glyn Vivian Art Gallery. Swansea. November 1984 onwards.
Postcard Show. Ramsgate. August 1986.

McLEAN, BRUCE, *Solo Exhibition:*
Scottish Gallery, Edinburgh. 1986.
Group Exhibitions:
Bilder fur Frankfurt – Bestandausstellung des Museums for Moderne Kunst. Frankfurt/Main. 1986.
John Moore's Liverpool Exhibition. 14 Walker Art Gallery, Liverpool. 1986.
Peace Biennale. Rene Block, Hamburg. 1986.
Hommage aux Femmes. ICC, Berlin. 1986.
Sculptors's Drawings. Scottish Arts Council, Edinburgh. 1986.
7000 Oaks. Kunsthalle Tubingen. 1986.
11 European Painters. National Gallery, Athens. 1986.
Peter Moore's Liverpool Project 8, Out of Line. Walker Art Gallery, Liverpool. 1986.
The Sydney Biennale. Art Gallery of New South Wales, Sydney. 1986.

McLEAN, BRUCE, 1985. Simple Manners and Physical Violence. Performed at Tate Gallery; Riverside Studios; Kunstakademie, Dusseldorf; Kunstmuseum, Dusseldorf; Hackschule, Cologne.

McLEAN, BRUCE, 1986. Physical Manners and Good Violence. Performed at Laing Art Gallery, Newcastle.

McLEAN, BRUCE, 1986. A Song for the North. Performed at Tate Gallery of the North, Liverpool.

MOON, MICK, *Group Exhibitions:*
Dolan-Maxwell Gallery, Philadelphia. January 1986.
Waddington Galleries, London. April 1986.

NEAGU, PAUL, *Solo Exhibition:*
Commissioned by British Museum for medal, 1985/86.
Placing of public sculpture, Middlesborough.
Group Exhibitions:
Attitudes. Guildhall Gallery, Northampton.
1985 Anniversary Show. Third Eye Centre, Glasgow.
Coloured Sculpture. Stoke-on-Trent City Gallery. March, 1986.
Six Sculptures. Frank Bernalt Gallery, Paris. June–September 1985.
A Painterly Approach, Artists in Print. Sunderland. March 1986.
3rd International Art Fair. Olympia. May 1986.
Anchorage International Art Gallery, Anchorage, Alaska. July 1986.

NEAGU, PAUL 1985. *Hyphen.* (London: Visual Hermaneutics.) 64 pp.

NORRIS, NORMAN, *Group Exhibition:*
A Singular Vision. South London Gallery. August–September 1985.

REGO, PAULA, *Solo Exhibitions:*
Edward Totah Gallery. September–October 1985.
S. Paulo Bienalle (representing Great Britain) October–December 1985.

RHODES, LIZ, *Film/Video screenings:*
Boston Museum of Modern Art, U.S.A.
Cambridge Darkroom, Jesus College Cambridge.
The Commonwealth Institute, London.
University of British Columbia, Vancouver, Canada.
George Pompidou Centre d'Art et Culture, Paris.
National Film Theatre, London.

RHODES, LIZ 1986. In *Films for Women*. Charlotte Bramoden (editor). BFI Magazine.

RHODES, LIZ 1986. Poetry. In *Cinema Experimental-Scratch*. (Paris).

RHODES, LIZ Lyrics for record *Music for Other Occasions*. Composed by Lindsay Cooper.

SUTTON, PHIL, *Solo Exhibitions:*
Browse and Darby. 1985.
The Polytechnic, Stoke-on-Trent. June 1986.
Beaux Art Gallery, Bath. November 1985.

UGLOW, EUAN, *Group Exhibitions:*
Human Interest; Fifty Years of British Art About People. Opening exhibition at the Cornerhouse, Manchester. October–November 1985.
The Flower Show. Stoke-on-Trent City Museum and Art Gallery.
Studies of the Nude. Marlborough Fine Art (London) Ltd.

WILDING, ALISON, *Solo Exhibitions:*
Galleria Salvatore Ala Milan. 1985.
Salvatore Ala Gallery, New York. 1986.
Group Exhibitions:
Synonyms for Sculpture, Trigon Biennale, Neue Galerie am Landesmuseum Joanneum, Austria. 1985.
Between Object and Image (Ministerio de Cultura & The British Council). Palacia de Velazquez, Madrid. 1986.
Fundacian Caja de Pensiones, Barcelona. 1986.
Museo de Bellas Artes, Bilbao. 1986.
Nine Artists from Britain. Louisiana Museum of Modern Art. Denmark (sculpture). 1986.
Irish Living Art Exhibitions. The Hop Store, Dublin. 1986.
Burnett Miller Gallery, Los Angeles. 1986.
Art & Alchemy, Venice Biennale. 1986.

FRENCH LANGUAGE AND LITERATURE

BARBER, W. H. 1986. *Corpus des notes marginales de Voltaire*. O Golubieva *et al.* (editors). (Berlin: Akademie Verlag).

BARBER, W. H. 1985. Tom II: C. 1983. *French Studies*, vol. xxxix, 473.

BARBER, W. H. 1986. Tom III: D-F. 1985. *French Studies*, vol. xl. 212.

CALDER, A. 1986. Attitudes to belief in Dorimon's *Festin de Pierre* and Molière's *Dom Juan', Seventeenth-century French Studies*, vol. viii, 101–114.

JONES, SHIRLEY, 1985. 'Ces esclaves sont des hommes': Prévost's account of the negroes of Senegal in his *Histoire générale des voyages*. In *Voltaire and his World, studies presented to W. H. Barber*, 225–239. (Oxford: Voltaire Foundation).

LAVERS, ANNETTE 1985. Roland Barthes. In *The Social Sciences Encyclopaedia*, 62–63. Adam and Jessica Kuper (editors). (London: Routledge & Kegan Paul).

NORTH, SALLY L. B. 1986. The Ideal Knight as presented in some French narrative poems, c. 1090–c. 1240: an outline sketch. In *The Ideals and Practice of Medieval Knighthood,* 111-132. C. Harper-Bill and R. Harvey (editors). (Woodbridge: Boydell and Brewer).

REEVE, ANNE (Editor.) 1986. *Erasmus' Annotations on the New Testament: the Gospels*. With introduction by M. A. Screech (London: Duckworth) xxlv + 276 pp.

RIBIERE, MIREILLE 1985. Alphabets: de l'exhibitionnisme en litterature. In *Cahiers Georges Perec,* No. 1, 134–145. Association Georges Perec (editors). Colloque de Cerisy, juillet 1984, Paris (P.O.L.).

WOLEDGE, B. 1985. *Commentaire sur Yvain (Le Chevalier au Lion) de Chretien de Troyes*. Tome I, vv. 1–3411. (Geneva: Librairire Droz). (French). xi, 206 pp. (Publications Romanes et Francaises, CLXX).

WORTON, M. J. 1985. Courbet, Carot, Char: du tableau au texte. *Littérature,* no. 59, 15–30.

WORTON, M. J. 1986. Ecrire et ré-écrire: le projet de Tournier. *Sud,* no. 61, 52–69.

WORTON, M. J. 1986. Narcissism, death and resurrection in the love poetry of René Char. *Romance Studies* no. 7, 120–137.

WORTON, M. J. 1985. Review of Roland Barthes *The Grain of the Voice*. *Books and Bookmen,* no. 362, 12.

GEOGRAPHY

ADAMS, J. G. U. A. 1985. *Risk and Freedom*. (Cardiff: Transport Publishing Projects) ix + 202 pp.

ADAMS, J. G. U. A. 1985. Smeed's Law, Seat belts and the Emperor's new clothes. In *Human Behavior and Traffic Safety*. 193–248. L. Evans and R. Schwing (editors). (New York: Plenum Press).

ADAMS, J. G. U. A. 1986. Transport dilemmas. In *London: Problems of Change,* 75–82. H. D. Clout and P. A. Wood (editors). (Harlow: Longman).

ADAMS, J. G. U. A. 1985. The one way cul-de-sac. *Town and Country Planning* September, 253.

ADAMS, J. G. U. A. 1986. Parting words. *On the Move*. March/April, 58.

ADAMS, J. G. U. A. 1986. Risk on the roads: why you can't force people to be safe. *Town and Country Planning*, March, 76–77.

ADAMS, J. G. U. A. 1985. Seat belts, drink and statistics. *Financial Times,* 20 December.

AGNEW, C. T. 1985. A reply to H. Rennie *Systems methodologies the soft alternative Area,* vol. 17, no. 4, 338.

AGNEW. C. T. 1985. Effective rainfall, evaporation and evapotranspiration. In *Encyclopaedic Dictionary of Physical Geography,* 150–151, 169–173. A. Goudie (editor). (Oxford: Basil Blackwell).

AGNEW, C. T., HOLLIS, G. E. (with Stevenson, A. C.) 1985. Wildfowl damned? *Geographical Magazine,* November, 584.

AGNEW, C. T. (with Cooke, R. U.) 1986. Air pollution control. In *London: Problems of Change*, 92–100. H. D. Clout and P. A. Wood (editors). (Harlow: Longman).

BATTARBEE, R. W. (with Smol, J. P., Davis, R. B. and Merilainen, J.) (editors) 1986. *Diatoms and lake acidity: the use of siliceous algal microfossils in reconstructing pH.* (The Hague: Junk) 307 pp.

BATTARBEE, R. W. (with Smol, J. P. and Merilainen, J.) 1986. Diatoms as indicators of pH: a historical review. *Ibid.*, 5–14.

BATTARBEE, R. W. 1986. Diatom analysis. In *Handbook of Palaeoecology and Palaeohydrology*. 527–70. B. E. Berglund (editor). (Chichester: John Wiley and Son Ltd.).

BATTARBEE, R. W. 1986. The eutrophication of Lough Erne inferred from changes in the diatom assemblages of 210 pb and 137 Cs-dated sediment cores. *Proc. R. Ir. Acad.*, 86B, 141–168.

BATTARBEE, R. W. (with Anderson, N. J., Appleby, P. G., Stevenson, A. C., Oldfield, F., Darley, J., and Glover, G.) 1986. Palaeolimnological evidence for the recent acidification of Loch Fleet, Galloway. *Working Papers on Palaeoecology*, no. 17 (UCL), 71 pp.

BATTARBEE, R. W. (with Fritz, S. C., Stevenson, A. C., Patrick, S. T., Appleby, P. G., Oldfield, F. and Darley, J.) 1986. Palaeoecological evaluation of the acidification of Welsh lakes I: Llyn Hir, Dyfed. *Working Papers in Palaeoecology*, no. 16 (UCL), 1–77.

BATTARBEE, R. W. (with Jones, V. Stephenson, A. C.) 1986. Lake acidification and the land-use hypothesis: a mid-post-glacial analogue. *Nature*, vol. 322, 157–8.

BATTARBEE, R. W. (with Milne, V., Straker, B. Yule) 1986. The River Thames in London in the mid 1st century A.D. *London and Middlesex Archaeological Society*, vol. 34, 19–30.

BATTARBEE, R. W. (with Scaife, R. G. and Phethean, S. J.) 1986. Palaeoecological evidence on sea-level changes in the Bann estuary in the early Mesolithic period. In *Excavations at Mount Sandel 1973–1977, County Londonderry*, 111–120. P. C. Woodman (editor). (Belfast: H.M.S.O.).

BATTARBEE, R. W. (with others) 1986. Diatoms and acid lakes: proceedings of a workshop. *Working Papers in Palaeoecology*, no. 11 (UCL), 1–19.

BROWN, E. H. 1986. Land under London. In *London: Problems of Change*, 5–13. H. D. Clout and P. A. Wood (editors). (Harlow: Longman).

BROWN, E. H. 1986. A re-examination of the evidence for a Plio-Pleistocene marine transgression on the Chiltern Hills. I. Structures and Surfaces. *Earth Surface Processes and Landforms*, vol. 11, 95–106.

BURGESS, J. 1986. Community organizations. In *London: Problems of Change*, 160–167. H. D. Clout and P. A. Wood (editors). (Harlow: Longman).

BURGESS, J. 1986. Appraising and improving performance. *J. of Geography in Higher Education*, vol. 10, 100–102.

BURGESS, J. (with Lee, R.) 1985. Only connect? Thoughts on geography, social science and the media. *Area*, vol. 17, 247–250.

CARTER, F. W. 1986. Balkan irrigation (with special reference to Yugoslavia). *J. of the British–Yugoslav Society*, no. 1, 9–15.

CARTER, F. W. 1986. Nuclear power production in Czechoslovakia. *Geography*, vol. 71, no. 311, 136–139.

CLOUT, H. D., WOOD, P. A. (Editors.) 1986. *London: Problems of Change* (Harlow: Longman.) 160 pp.

CLOUT, H. D. 1986. London's beginnings. *Ibid.*, 14–22.

CLOUT, H. D. 1986. London in transition. *Ibid.*, 23–32.

CLOUT, H. D. 1986. Prologue to the present. *Ibid.*, 33–41.
CLOUT, H. D. 1985. The role of administrators, politicians and managers in the organization of space. In *25e Congrès Internationale de Géographie: Actes du Congrès, Paris 1984.* (Caen: Comité Internationale de l'U.G.I.) 84–7.
COOKE, R. U. 1985. Applied geomorphology. In *Perspectives on a Changing Geography,* 36–47. A. Kent (editor). (Sheffield: The Geographical Association).
COOKE, R. U. 1986. Surface forms of northern Panamint Valley. In *Environmental and Paleoenvironmental Studies in Paramint Valley,* 8–27. E. L. Davis and C. Raven (editors). (San Diego, California: The Great Basin Foundation).
COOKE, R. U. (with Brunsden, D., Doornkamp, J. C. and Jones, D. K. C.) 1985. Geomorphological dimensions of land development in deserts, with special reference to Saudi Arabia. *Nottingham Monographs in Applied Geography,* no. 4, 105 pp.
COOKE, R. U., WARREN, A. (with Jones, D. K. C.) 1985. Estimating sand and dust hazard in deserts: an example from Saudi Arabia. *Stuttgarter Geographische Studien,* Vol, 105, 19–28.
COOKE, R. U. (with Sperling, C. H. B.) 1985. Laboratory simulation of rock weathering by salt crystallization and hydration processes in hot, arid environments. *Earth Surface Processes and Landforms,* vol. 10, 541–555.
DENNIS, R. J. 1986. Housing problems. In *London: Problems of Change,* 83–91. H. D. Clout and P. A. Wood (editors). (London: Longman).
DENNIS, R. J. 1986. Suburban London. *Ibid.,* 118–27.
DENNIS, R. J. 1986. Housing, class and voting behaviour in West Riding textile towns: a geographical analysis. In *Geography of Population and Mobility in Nineteenth-Century Britain,* 46–70. C. Withers (editor). (Cheltenham: Historical Geography Research Group).
DENNIS, R. J. 1985. Historical geography: landscape with figures. *Progr. Human Geography,* vol. 9, 575–584.
GILBERT, A. G. 1986. *The International Dimension of Social Science Funding.* (London: Economic and Social Research Council.) 43 pp.
GILBERT, A. G. 1984. Without a care in the world. . . *THES,* 21 September, 16.
GILBERT, A. G. 1986. Self-help housing and state intervention: illustrative reflections on the petty commodity production debate. *Urbanization in the Developing World,* 175–194. D. W. Drakakis-Smith (editor). (London: Croom Helm).
GILBERT, A. G. 1986. A development package. *Prog. Human Geog.,* vol. 10, 279–284.
GILBERT, A. G. (with Healey, P.) 1985. *The Political Economy of Land: urban development in an oil economy.* (Aldershot: Gower.) 163 pp.
GILBERT, A. G. (with Ward, P. M.) Latin American migrants: a tale of three cities. *People and Environments: issues and enquiries,* 24–42. F. M. Slater (editor). (London: Collins Educational).
HARRISON, C. M. 1986. Wildlife and the city. In *London: Problems of Change,* 144–151. H. D. Clout and P. A. Wood (editors). (Harlow: Longman).
HARRISON, C. M. 1986. Managing recreational areas: the effects of trampling on an ecosystem. In *People and Environments: issues and enquiries,* 390–406. F. Slater (editor). (London: Collins Educational).
HARRISON, C. M. (with Burgess, J. A. and Limb, M.) 1986. *Popular Values for the Countryside.* Report to the Countryside Commission. (UCL: Department of Geography). 75 pp.

HARRISON, C. M. (with Goldsmith, F. B. and Morton, A. J.) 1985. Description and analysis of vegetation. In *Methods in Plant Ecology* (2nd edition), 437–524. P. D. Moore and S. B. Chapman (editors). (Oxford: Blackwell Scientific Publications).

HOLLIS, G. E. (Editor). 1985. The birds of the Ichkeul National Park, Tunisia. *UCL Conservation Reports,* no. 13 (UCL), 20 pp.

HOLLIS, G. E. 1986. Forecasting the future salinity regimes of Garaet El Ichkeul, Tunisia, after a water diversion scheme and wetland conservation measures. In *Water Quality Modelling in the Natural Environment,* 403–419. G. Falconer (editor). (Cranfield: British Hydromechanics Research Association).

HOLLIS, G. E. 1986. Water management in London. In *London: Problems of Change,* 101–110. H. D. Clout and P. A. Wood (editors). (Harlow: Longman).

HOLLIS, C. E. (with Kallel, M. R.) 1986. Modelling natural and man-induced hydrological changes on Sebkhet Kelbia, Tunisia. *Trans. I. B. G.,* vol. 11, no. 1, 86–104.

JACKSON, P. A. 1986. Ethnic and social conflict. In *London: Problems of Change,* 152–159. H. D. Clout and P. A. Wood (editors). (Harlow: Longman).

JACKSON, P. A. 1985. Neighbourhood change in New York: the loft conversion process. *Tijdschrift voor Economische en Sociale Geografie,* vol. 76, 202–215.

JACKSON, P. A. 1986. Social geography: the rediscovery of place. *Progress in Human Geography,* vol. 10, 118–124.

JACKSON, P. A. (with Forbes, D. K., Thrift, N. and Williams, P.) 1985. Cities, culture and social change, books in 1984. *Environment and Planning, Society and Space,* vol. 3, 477–487.

JONES, A. R. 1986. The role of institutions in agricultural change under the Common Agricultural Policy. *Dept. of Geography, Univ. of Leicester, Occasional Paper Series,* no. 13.

JONES, A. R. 1986. Agricultural despecialisation under the European Community's CAP. *Bloomsbury Geographer,* vol. 14, 18–21.

LOWENTHAL, D. 1985. *The Past is a Foreign Country.* (Cambridge: Cambridge University Press.) xxvii + 489 pp.

LOWENTHAL, D. 1985. Mobility and identity in the island Pacific: a critique. Review of Murray Chapman *Mobility and Identity in the Pacific Island. Pacific Viewpoint,* vol. 26, no. 1, 316–326.

LOWENTHAL, D. 1986. Heritage – and its interpreters. *Heritage Australia,* vol. 5, no. 2, 42–45.

MANNERS, G. 1985. The Exchequer costs of the National Coal Board into the 1990s. In *Energy UK 1986, an Economic, Social and Policy Audit.* 22–32. A. Harrison and J. Gretton (editors). (London: Policy Journals).

MANNERS, G. 1986. Multinationals and the exploitation of non-renewable resources. In *Multinational Corporations and the Third World.* 25–38. C. J. Dixon, *et al.* (editors). (London: Croom Helm).

MANNERS, G. 1986. Decentralising London, 1945–1975; Central London. In *London: Problems of Change,* 42–51 and 111–117. H. D. Clout and P. A. Wood (editors). (Harlow: Longman).

MANNERS, G. 1985. Regulating a private British Gas. *Petroleum Review,* December, 24–27.

MEAD, W. R. (Consultant and contributor) 1985. *Scandinavia* (Amsterdam: Time-Life Books) 160 pp.

MEAD, W. R. 1985. Introduction. In *Sweden,* 5–16. (New York: Cresset Books).

MEAD, W. R. 1986. Sverige, Storbritannien och Europe, in Forskringsradsnamnden, *I Kontinentens ut Kant,* Uppsala, 9–40.
MUNTON, R. J. C. 1986. Green belts: the end of an era? *Geography,* vol. 71, 206–214.
MUNTON, R. J. C. 1985. Investment in British agriculture by the financial institutions. *Sociologia Ruralis,* vol. 25, 155–73.
MUNTON, R. J. C. 1986. The metropolitan green belt. In *London: Problems of Change,* 128–136. H. D. Clout and P. A. Wood (editors). (Harlow: Longman).
O'CONNOR, A. M. 1985. Population growth in Kenya. *Espace, Populations, Sociétés, 1985-III,* 563–566.
O'CONNOR, A. M. 1986. *Urban Housing in Tropical Africa: a bibliography.* Published by the Development Planning Unit, University College London (on 5¼" floppy disc).
PRINCE, H. C. 1986. Parks and open spaces. In *London: Problems of Change,* 137–143. H. D. Clout and P. A. Wood (editors). (Harlow: Longman).
SALT, J. 1986. Labour force and employment in Western Europe. In *Planning for Population Change,* 39–63. W. T. S. Gould and R. Lawton (editors). (London: Croom Helm).
SALT, J. 1986. Population trends. In *London: Problems of Change,* 52–59. H. D. Clout and P. A. Wood (editors). (Harlow: Longman).
SALT, J. 1986. International migration. In *Population Geography: Progress and Prospect,* 166–193. M. Pacione (editor). (London: Croom Helm).
SKINNER, J. 1985. Lake in the desert. *Birds,* vol. 10, no. 7, 28–33.
VITA-FINZI, C. 1986. *Recent Earth Movements.* (London: Academic Press) xvi + 226 pp.
WARREN, A., JONES, D. K. C. and COOKE, R. U. 1986. The assessment of sand and dust hazards for engineering purposes. *Quarterly Jl. of Engineering Geology,* vol. 19, 251–270.
WOOD, P. A., CLOUT, H. D. (Editors). 1986. *London: Problems of Change.* (Harlow: Longman.) 169 pp.
WOOD, P. A. 1986. London: past, present and future. *Ibid.,* 1–4.
WOOD, P. A. 1986. Economic change. *Ibid.,* 60–74.
WOOD, P. A. 1986. The anatomy of job loss and job creation; some speculations on the role of the 'producer service' sector. *Regional Studies,* vol. 9, 37–46.
WOOD, P. A. 1986. London: a region in transition. In *Division of Labour, Specialization and Technical Change,* 117–134. G. Törnquist, B. Gyllström, J. E. Nilsson and L. Swensson (editors). (Lund: Liber).

GERMAN

CRICK, J. 1984. Translations of Friedrich Schlegel, *Essays and Fragments;* Novalis, *Miscellaneous Writings;* Solger, *Erwin.* In *German Aesthetic and Literary Criticism,* III, 32–80; 84–111; 128–150. K. Wheeler (editor). (Cambridge: Cambridge University Press).
CRICK, J. 1985. Translations of Hamann, *Aesthetica in nuce;* Herder, *Correspondence on Oscian and the Songs of Ancient Peoples; Shakespeare.* In *German Aesthetic and Literary Criticism,* I, 141–150; 154–176. H. B. Nisbet (editor). (Cambridge: Cambridge University Press).
CRICK, J. 1985. Coleridge's *Wallenstein:* available dictions. In *Second Hand: Papers on the Theory and Historical Study of Literary Translation,* T. Hermans (editor), ALW Cahier nr. 3, 128–160.

FULBROOK, M. 1986. Legitimacy and Domination: Aspects of *Herrschaft* in Twentieth-Century Germany. In *London German Studies III,* 67–89. J. P. Stern (editor). (London: Institute of Germanic Studies).

FULBROOK, M. (editor, with R. J. Evans), 1986. German History. *J. of the German History Society,* no. 3, 101 pp.

LARRETT, W. 1986. *Penthesilea* – or the case of the deadly metaphor. In *London German Studies III,* 41–53. J. P. Stern (editor). (London: Institute of Germanic Studies).

STERN, J. P. (Editor) 1986. *London German Studies III.* (London: Institute of Germanic Studies.) 211 pp.; (Contributor) In Praise of Erich Auerbach's *Mimesis,* 194–211.

STERN, J. P. 1985. Introduction to *Modern Swiss Literature: Unity and Diversity,* 1–6. J. L. Flood (editor). (London: Institute of Germanic Studies).

STERN, J. P. 1985. Karl Kraus: Sprache und Moralität. In *Ornament und Askese im Zeitgeist des Wien der Jahrhundertwende,* 168–176. A. Pfabigan (editor). (Vienna: Christian Brandstätter Verlag).

STERN, J. P. 1986. Karl Kraus: Language and Experience. In *Karl Kraus in neuer Sicht,* London Kraus Symposium, 21–31. P. Scheichl and E. F. Timms (editors). (Munich: edition text + kritik).

STERN, J. P. 1986. Introduction to *Kant und Schiller als Zeitgenossen der französischen Revolution* by Karl Dietrich Erdmann, the 1985 Bithell Memorial Lecture, i–vi (London: Institute of Germanic Studies).

STERN, J. P. 1985. Details of an Everyday Reality: on Erich Auerbach's *Mimesis. THES* 25 October, 16.

STERN, J. P. 1985. Deutschland und die Deutschen. *Der Monat,* no. 296, 14–35.

STERN, J. P. 1986. Das Wien der Jahrhundertwende aus tschechischer Sicht. *Österreichische Osthefte,* xxviii, 7–21.

STERN, J. P. 1986. Deutschtum. Review article on Thomas Mann, *Reflections of a Non-Political Man,* translated by W. Morris. *London Review of Books,* 3 April, 6–7.

STERN, J. P. 1986. Canetti's later work. *London Review of Books,* 3 July, 13–15.

STILLMARK, A. (Editor, with Swales, M. W. and Lachinger, J.) 1985. *Adalbert Stifter heute. Londoner Symposium 1983* (Linz: Adalbert-Stifter-Institut des Landes Oberösterreich; London: Institute of Germanic Studies.) 167 pp.; (Contributor) Stifter and Wordsworth. Observations on some Affinities in Creative Imagination, 25–36.

SWALES, M. W. (Editor, with Boyle, N.) 1986. *Realism in European Literature: Essays in honour of J. P. Stern.* (Cambridge: Cambridge University Press.) 206 pp. (Contributor) The Problem of German Realism, 68–84.

SWALES, M. W. 1986. Zum Problem des deutschen Realismus. In *Kontroversen, alte und neue: Akten des VII. IVG-Kongresses, Göttingen,* Albrecht Schöne (editor), vol. 9, 116–121.

WAGNER, A. H. 1986. Ein Jahrestag. Der 15 Oktober 1967 in Uwe Johnsons *Jahrestage.* In *London German Studies III,* 144–161. J. P. Stern (editor). (London: Institute of Germanic Studies).

GREEK

COCKLE, W. E. H. 1985. Review of Bärbel Kramer, Cornelia Römer, Dieter Hagedorn and others, *Kölner Papyri (P. Köln),* Band 4. *Papyrologica Coloniensia,* Vol. VII. *Classical Review,* vol. 35, 362–364.

COLES, R. A. 1985. Editions of papyri (P. Harr. 212, 214, 216–8). *The Rendel Harris Papyri,* vol. II, 115–116, 119–121, 124–129. R. A. Coles, M. Manfredi, P. J. Sijpesteijn (editors). (Zutphen: Terra).

COLES, R. A. 1985. P. Oxy. XXII 2343 revised. *Zeitschrift für Papyrologie und Epigraphik,* vol. 61, 110–114.

COLES, R. A. 1985. Review of R. Pintaudi, *I papiri vaticani di Aphrodito. J. of Egyptian Archaeology,* vol. 71, reviews supplement pp. 62–63.

HOOKER, J. T. 1985. Minoan and Mycenaean settlement in Cyprus: a note. *Proc. of the 2nd International Cyprological Conf.,* vol. I. T. Papadopoullos and S. A. Chatzestylles (editors). Leukosia, 20–25 April 1982. (Nicosia, Society of Cypriot Studies.) 175–179.

HOOKER, J. T. 1986. A residual problem in *Iliad* 24. *Classical Quarterly,* vol. 36, 32–37.

HOOKER, J. T. 1985. Review of F. Schachermeyr, *Die griechische Rückerinnerung* and *Griechische Frühgeschichte. J. of Hellenic Studies,* vol. 105, 220–222.

HOOKER, J. T. 1986. Review of G. S. Kirk, *The Iliad: A Commentary,* vol. I, Books 1–4. *JACT Review,* vol. 14, 23–24.

HOOKER, J. T. 1986. Reviews of B. Gentili, *Poesia e Pubblico nella Grecia Antica da Omero al V. Secolo,* M. M. Kumpf, *Four indices of the Homeric Hapax Legomena,* and F. X. Stasser, *Zu den Iterata der frühgriechischen Epik. Classical Review,* vol. 36, 61–63, 126–127.

KELLS, J. H. 1985. Sophocles: *Electra.* (Reprint, with corrections, of 1973 edition.) (Cambridge: Cambridge University Press.) viii + 256 pp.

MAEHLER, H. G. T. 1985. Bemerkungen zu Pindar. *Hermes,* vol. 113, 392–403.

REA, J. R. 1984. Valerian Caesar in the Papyri. *Atti del XVII Congresso Internazionale di Papirologia.* Naples, 19–26 May 1983. (Naples: Centro Internazionale per lo Studio dei Papiri Ercolanesi.) 1125–1133.

REA, J. R. 1984. A Cavalryman's Career, A. D. 384(?)–401. *Zeitschrift für Papyrologie und Epigraphik,* vol. 56, 79–88.

REA, J. R. 1984. Österreichische Nationalbibliothek GWT 2. *Ibid.,* 89–92.

REA, J. R. 1985. (with Salomons, R. P. and Worp, K. A.) A Ration Warrant for an *adiutor memoriae. Yale Classical Studies,* vol. 28, 101–113, pl. VIII.

REA, J. R. 1986. A Letter of Condolence: CPR VI 81 revised. *Zeitschrift für Papyrologie und Epigraphik,* vol. 62, 75–78.

REA, J. R. 1986. P. Oxy. XLIII 3121 and Goldsmiths' Pay. *Ibid.,* 79–80.

REA, J. R. 1986. A New Case of Manumission by *vindicta. Ibid.,* 81–85.

REA, J. R. 1984. Reviews of R. S. Bagnall and K. A. Worp, *Chronological Systems of Byzantine Egypt,* and (same authors), *Regnal Formulas in Byzantine Egypt. J. of Egyptian Archaeology,* vol. 70, 187–189, 189–190.

REA. J. R. 1985. Review of M. Drew-Bear, *Le Nome Hermopolite. J. of Egyptian Archaeology,* vol. 71, reviews supplement 68–71.

SHARPLES, R. W. 1985. Plato: *Meno,* (edited with translation and notes). (Warminster: Aris and Phillips.) vii + 195 pp.

SHARPLES, R. W. 1985. Theophrastus on the heavens. *Aristoteles, Werk und Wirkung: Paul Moraux gewidmet,* 577–593. J. Wiesner (editor). (Berlin: De Gruyter).

SHARPLES, R. W. 1986. Reviews of P. Thillet, *Alexandre d'Aphrodise: Traité du destin,* and Brad Inwood, *Ethics and Human Action in Early Stoicism. Classical Review,* vol. 36, 33–35, 73–75.

TURNER, Sir Eric G. (the late) 1985. (with Fowler, D. H., Koenen, L. and Youtie, L. C.) Euclid, *Elements* I, Definitions 1–10 (P. Mich. III 143). *Yale Classical Studies,* vol. XXVIII, 13–24, pls. I–VIII.

GELLER, M. J. 1986. Eight Incantation Bowls. *Orientalia Lovaniensia Periodica,* vol. 17, 101–118 + 7 plates.

GELLER, M. J. 1984. Review of Franz Köcher *Babylonisch–assyrisch medizin* vol. 7 and 8. *Zeitschrift für Assyriologie,* no. 74, 292–297.

GELLER, M. J. 3 October 1985. Radio 3, Interval talk.

LIPMAN, VIVIAN, 1986. Social change in Anglo-Jewry 1918–1939 (in Hebrew). In *Yahadut Zemanenu: Contemporary Jewry, a Research Annual,* vol. 3, 49–74. (The Hebrew University Jerusalem: The Magnes Press).

MILLAR, F. G. B. (Editor, with Vermes, G. and Goodman, M.) 1986. E. Schürer *History of the Jewish People in the Age of Jesus Christ* (175 BC–AD 135), III. 1, Edinburgh. (Edinburgh: T. & T. Clark Ltd.) xxi + 704.

MILLAR, F. G. B. 1985. Roots of Revolution, *TLS.* 1301–1302, 15 November.

RAPOPORT-ALBERT, A. 1985. Gershom Scholem. *The American Scholar,* vol. 54, 541–549.

WEITZMAN, M. P. 1986. Les caractéristiques numériques indépendants de la longueur du texte. In *Actes du Colloque Internationale CNRS: Methodes quantitative et informatiques dans l'étude des textes,* 864–878. E. Brunet (editor) (Geneva: Slatkine).

WEITZMAN, M. P. 25 October 1985. BBC 2. Newsnight.

HISTORY

ATKINSON, CATHERINE, 1986. The Bentham Ring. *The Bulletin, UCL,* vol. 6, no. 11, 9–10.

ATKINSON, CATHERINE, 1986. Review of Celia Morris Eckhardt *Fanny Wright – Rebel in America. Bentham Newsletter,* X 56–57 (June).

BETHELL, L. M. (Editor.) 1986. *The Cambridge History of Latin America, Vol. IV, c. 1870 to 1930.* (Cambridge: Cambridge University Press.) 676 pp.

BETHELL, L. M. (Editor.) 1986. *The Cambridge History of Latin America, Vol. V, c. 1870 to 1930.* (Cambridge: Cambridge University Press.) 951 pp.

BLAKEMORE, H. (Editor, with Angell, A.) 1985. *The Journal of Latin American Studies,* vol. 17, part 2, November. (Cambridge: Cambridge University Press.) pp. 271–497.

BLAKEMORE, H. (Editor, with Angell, A.) 1986. *The Journal of Latin American Studies,* vol. 18, part 1, May. (Cambridge: Cambridge University Press.) pp. 1–254.

BLAKEMORE, H. 1986. Chile from the War of the Pacific to the World Depression, 1880–1930. In *The Cambridge History of Latin America, Vol. V, c. 1870 to 1930,* 499–551, 883–886. L. M. Bethell (editor). (Cambridge: Cambridge University Press).

BLAKEMORE, H. 1986. Dictatorship and Democracy in Latin America. *South America, Central America and the Caribbean,* 10–14. (London: Europa Publications Ltd.).

BLAKEMORE, H. 1986. Argentina. *Ibid.,* 111–117.

BLAKEMORE, H. 1986. Chile. *Ibid.,* 193–198.

BLAKEMORE, H. 1986. Old Soldiers Never Die. Review. *Third World Quarterly,* vol. 8, no. 3, 1076–1082.

BOXER, C. R. 1985. *Portuguese Merchants and Missionaries in Feudal Japan, 1543–1640.* (London: Variorum Reprints.) 338 pp.

BOXER, C. R. 1985. Diogo do Couto (1543–1616), Controversial Chronicler of Portuguese Asia. In *Iberia. Studies in honour of Harold V. Livermore,* 57–66. R. O. W. Goertz (editor). (Calgary: University of Calgary Press).

BOXER, C. R. 1986. Second Thoughts on the Anglo-Portuguese Alliance, 1661–1808. *History Today,* vol. 36 (June), 22–26.

BURNS, J. H. 1985. Fortescue and the political theory of *dominum. Historical Journal,* vol. 28, 777–797.

BURNS, J. H. 1986. From 'polite learning' to 'useful knowledge'. *History Today,* vol. 36 (April), 21–29.

BURNS, J. H. 1986. Misunderstandings. Review-article on Robert Stewart *Henry Brougham 1778–1868: His Public Career* and Biancamaria Fontana *Rethinking the Politics of Commercial Society: The 'Edinburgh Review' 1802–1832. London Review of Books,* vol. 8, no. 5 (20 March) 17–18.

CARSWELL, J. P. 1986. *Government and the Universities in Britain. Programme and Performance 1960–1980.* (Cambridge: Cambridge University Press.) 181 pp.

CHORLEY, G. P. H. 1986. The English Assize of Cloth. *Bull. of the Institute of Historical Research,* 125–130, May.

CHORLEY, G. P. H. 1986. Review of R. Price *The Modernization of Rural France. Agricultural History Review,* vol. 34, 116–118.

CHRISTIE, I. R. 1986. George III and the Historians – Thirty Years On. *History,* vol. 71, no. 232, 205–221.

CHRISTIE, I. R. 1986. Jeremy Bentham and Prince Potemkin. *The Bentham Newsletter,* no. 10 (June), 17–21.

CLARKE, HELEN, (Editor, with Lundström, A. and translator.) 1986. *Excavations at Helgö,* X. (Stockholm: Royal Swedish Academy of History and Antiquities.) 179 pp.

CLARKE, HELEN, (Translator.) 1985. *Islam: Art and Culture,* Catalogue of the Islamic Exhibition. (Stockholm: The Museum of National Antiquities.) 219 pp.

CLARKE, HELEN, 1985. English and Baltic trade in the middle ages. *Acta Visbyensia,* vol. 7, 113–120.

CLARKE, HELEN, 1985. The Northampton conference. *Medieval Archaeology,* vol. 28, 157.

CLARKE, HELEN, (with Leach, P. E.) 1985. The medieval churches of the Cuckmere valley. *Sussex Archaeological Collections,* 123, 95–108.

CLARKE, HELEN, (with Leach, P. E.) 1985. Selmeston church. *Ibid.,* 19–21.

CLARKE, HELEN, 1985. Review of J. Engström *Torsburgen. Tolkning av en gotländsk fornborg. Medieval Archaeology,* vol. 29, 247.

CLARKE, HELEN, 1985. Review of G. Kossack *et al.* (editors) *Archäologische und naturwissenschaftliche Untersuchungen an Siedlungen im deutschen küstengebiet I and II. Ibid.,* 251–252.

CLARKE, HELEN, 1986. Review of J. M. Steane, *The Archaeology of Medieval England and Wales. History,* vol. 71, no. 231, 134–135.

COLEMAN, C. H. D. (Editor, with Starkey, D.) 1986. *Revolution Reassessed. Revisions in the History of Tudor Government and Administration.* (Oxford: Clarendon Press.) viii + 219 pp.

COLEMAN, C. H. D. 1986. Professor Elton's 'Revolution'. *Ibid.,* 1–11.

COLEMAN, C. H. D. 1986. Artifice or Accident? The Reorganization of the Exchequer of Receipt c. 1554–1572. *Ibid.,* 163–198.

CONWAY, S. R. 1986. To subdue America: British army officers and the conduct of the Revolutionary war. *The William and Mary Quarterly*, 101 3rd series, xliii, 381–407.

CONWAY, S. R. 1986. The Correspondence: A Progress Report. *The Bentham Newsletter*, X, 44–45.

CRAIG, R. S. 1985. Henry Radcliffe (1851–1921). In *Dictionary of Business Biography*, vol. 4, 796–799. D. J. Jeremy (editor). (London: Butterworths).

CRAIG, R. S. (with Robson, M.) 1985. Sir Robert Roper (1838–1924). *Ibid.*, 940–945.

CRAIG, R. S. 1985. Carmarthenshire shipping in the Eighteen Forties. *The Carmarthenshire Antiquary*, vol. XXI, 49–57.

DAUNTON, M. J. 1985. Royal Mail: The Post Office since 1840. (London: The Athlone Press.) xviii + 388 pp.

DAUNTON, M. J. (with Wagner, M.) 1985. '. . . Jedermanns Geldgeschäfte prompt, sicher und billig zu besorgen'. Die Bestimmungsgrössen unterschiedlicher Rentabilität öffentlicher Unternehmungen am Beispiel der britischen und österreichischen Postsparkasse, 1885–1914. In *Beiträge zur quantitativen vergleichenden Unternehmensgeschichte*, 131–145. R. Tilly (editor). (Stuttgart: Klett-Cotta).

DAUNTON, M. J. 1986. The Export Coalfields: South Wales and North-Eastern England, 1270–1914. In *Pitmen, Viewers and Coalmasters: Essays on North-East Coalmining in the Nineteenth Century*, 126–158. R. W. Sturgess (editor). (Sunderland: North-East Labour History Society.)

DAUNTON, M. J. 1985. Rowland Hill and the Penny Post. *History Today*, vol. 35 (August), 31–37.

DAVIES, WENDY (with Astill, G.) 1985. The East Brittany Survey: Oust/Vilaine Watershed. In *Archaeological Field Survey in Britain and Abroad*, 101–109. S. Macready & F. H. Thompson (editors). (London: Society of Antiquaries).

DAVIES, WENDY, 1986. Suretyship in the *Cartulaire de Redon*. In *Lawyers and Laymen*, 72–91. T. Charles-Edwards, M. Owen & D. Walters (editors). (Cardiff: University of Wales Press).

DAVIES, WENDY, 1986. Les chartes du Cartulaire de Landévennec. In *Landévennec et le monachisme breton dans le haut moyen âge*, 85–95. M. Simon (editor). (Landévennec: Association Landévennec).

DAVIES, WENDY (with Astill, G.) 1986. Prospections archéologiques dans l'est de la Bretagne; mars-avril 1985. *Dossiers du Centre Régional d'Alet*, vol. xiii, 85–98.

DAVIES, WENDY, (with Tierney, D.) 1984. Nouvelle Clio. (Review article.) *Peritia*, 3, 559–566.

FOXHALL, LIN, 1986. Greece Ancient and Modern: Subsistence and Survival. *History Today*, vol. 36 (July), 35–43.

FRENCH, D. W. 1985. Sir Douglas Haig's reputation: A note. *Historical Journal*, vol. 28, no. 4, 953–960.

FRENCH, D. W. 1986. 'Official but not History'? Sir James Edmonds and the Official History of the Great War. *J. of the Royal United Services Institute for Defence Studies*, vol. 131, no. 1, 58–63.

FRENCH, D. W. 1986. Fighting the Frocks. Review of Keith Jeffrey (editor) *The Military Correspondence of Field Marshal Sir Henry Wilson 1918–1922*. *TLS*, 3 January, 6.

FRENCH, D. W. 1986. Review of Trevor Royle. *The Kitchener Enigma*. *J. of the Royal United Services Institute for Defence Studies*, vol. 131, no. 1, 74.

GRAHAM-CAMPBELL, J. A. 1984. Two Viking-age silver brooch fragments believed to be from the 1858 Skaill (Orkney) hoard. *Proc. of the Society of Antiquaries of Scotland*, vol. 114, 289–301.

GRAHAM–CAMPBELL, J. A. 1985. Two Scandinavian disc brooches of Viking age date from England. *Antiquaries Journal*, vol. 65, 448–449.

HALE, J. R. (U.S. Edition) 1986. *War and Society in Renaissance Europe 1450–1620.* (John Hopkins University Press.) 282 pp.

HALE, J. R. 1986. Shakespeare and Warfare. In *William Shakespeare: his world, his work, his influence* (3 vols.) vol. 1, 85–98. John F. Andrews (editor). (New York: Charles Scribners Sons.)

HALE, J. R. 1986. The soldier in germanic graphic art of the Renaissance. *J. of Interdisciplinary History*, XVII, 85–114, Summer.

HALE, J. R. 1986. Review of Samuel Edgerton. *Pictures and Punishment. Art and Criminal Prosecution During the Florentine Renaissance. TLS*, 28 March, 322.

HARTE, N. B. Julia de Lacy Mann, 1891–1985: A Memoir. *Textile History*, vol. 17, no. 1, 3–6.

ISRAEL, J. I. 1985. *European Jewry in the Age of Mercantilism (1550–1750).* (Oxford: Oxford University Press.) 293 pp.

ISRAEL, J. I. 1985. Manuel López Pereira of Amsterdam, Antwerp and Madrid: Jew, New Christian and Adviser to the Conde-Duque de Olivares. *Studia Rosenthaliana*, vol. XIX, no. 2, 109–126.

ISRAEL, J. I. 1986. The Phases of the Dutch *straatvaart* (1590–1713). A Chapter in the Economic History of the Mediterranean. *Tijdschrift voor Geschiedenis*, no. 99, 1–30.

JAMIESON, A. G. 1986. Sir John Isaac Thorneycroft, 1843–1928: Inventor and manufacturer of high-speed naval vessels and commercial motor vehicles. In *Dictionary of Business Biography*, vol. 5, 513–520. (London: Butterworths).

JOHNSON, D. W. 1985. Pierre Mendès France en Grande Bretagne. In *Pierre Mendès France et le Mendésisme*, 297–309. François Bédarida and Jean-Pierre Rioux (editors). (Paris: Fayard.).

JOHNSON, D. W. 1986. History. In *France*, 10–24. John Ardagh (editor). (London: Collins).

JOHNSON, D. W. 1985. Was Blimp wrong? *New Society*, no. 1177 (19 July), 91–92.

JOHNSON, D. W. 1986. La Grande Bretagne vue par les Français, transformation d'une image. *Pouvoirs*, no. 37, 1–9.

JOHNSON, D. W. 1986. Traitors to a vision of justice: Julien Benda's *La Trahison des Clercs*. *THES*, no. 690 (24 January), 16.

JOHNSON, D. W. 1986. Braudel: The Historian as Dramatist. *History Today*, vol. 36 (July), 51–54.

JOHNSON, D. W. 1985. A Tale of Two Cities: Birmingham and Lyons. Review. *New Society*, no. 1179 (2 August), 164–165.

JOHNSON, D. W. 1986. Homage to Spain. Review. *London Review of Books*, vol. 8, no. 9 (22 May), 22–23.

LYNCH, J. 1985. Spanish American Independence, 1808–1826. In *The Cambridge Encyclopedia of Latin America and the Caribbean*, 205–211. Simon Collier, Harold Blakemore and Thomas E. Skidmore (editors). (Cambridge: Cambridge University Press).

LYNCH, J. 1986. The Catholic Church in Latin America, 1830–1930. In *The Cambridge History of Latin America, vol. IV, c. 1870 to 1930*, 527–595. L. M. Bethell (editor). (Cambridge: Cambridge University Press).

MILLAR, F. G. B. (Editor with Vermes, G. and Goodman, M.) 1986. E. Schürer, *History of the Jewish People in the Age of Jesus Christ (175 B.C.–A.D. 135)* III, I. (Edinburgh: T. & T. Clark Ltd.) xxi + 704 pp.

MILLAR, F. G. B. 1985. Roots of a Revolution. Review. *TLS*, 15 November, 1301–1302.

MOMIGLIANO, A. D. 1985. *Tra storia e storicismo* (Biblioteca di Scienza dell'Uomo diretta da Riccardo Di Donato, I). (Pisa: Nistri-Lischi Editori.) (Italian.) 267 pp.

MOMIGLIANO, A. D. 1985. Marcel Mauss e il problema della persona. In *Gli uomini, le società, le civiltà. Uno studio intorno all'opera di Marcel Mauss*, 7–15. R. Di Donato (editor). (Pisa: ETS Editrice.) (Also reprinted 1985. *Rivista Storica Italiana*, vol. 97, 253–263).

MOMIGLIANO, A. D. 1985. Marcel Mauss and the Quest for the Person in Greek Biography and Autobiography. In *The Category of the Person. Anthropology, Philosophy, History*, 83–92. M. Carrithers, S. Collins, S. Lukes (editors). (Cambridge: Cambridge University Press).

MOMIGLIANO, A. D. 1985. The Life of St. Macrina by Gregory of Nyassa. In *The Craft of the Ancient Historian: Essays in Honor of Chester G. Starr*, 443–458. (Lanham–London: University Press of America).

MOMIGLIANO, A. D. 1985. Macrina: una santa aristocratica vista dal fratello (Appendice: Il posto della donna nelle sinagoghe ellenistiche). In *Le donne in Grecia*, 331–344. Giampiera Arrigoni (editor). (Bari: Laterza).

MOMIGLIANO, A. D. 1985. Religion in Athens, Rome and Jerusalem in the First Century B.C. In *Approaches to Judaism, Vol. V, Studies in Judaism and its Greco-Roman Context*, 873–892. W. S. Green (editor). (Atlanta, Georgia: Scholars Press).

MOMIGLIANO, A. D. 1985. Herodotus Today. *Storia della Storiografia*, no. 7, (numero speciale, 'Erodoto'), 3–5.

MOMIGLIANO, A. D. 1985. The Jews of Italy. *The New York Review of Books*, vol. 32, no. 16 (24 October), 22–26.

MOMIGLIANO, A. D. 1985. La cultura storico-giuridica subalpina tra la Restaurazione e l'Unità in un libro di Laura Moscati. *Storia della Storiografia*, no. 8, 158–161.

MOMIGLIANO, A. D. 1986. How Roman Emperors Became Gods. *The American Scholar*, Spring, 181–193.

MOMIGLIANO, A. D. 1986. Fustel de Coulanges et l'Italie. *Athenaeum*, no. 74, 1–2, 185–193.

MOMIGLIANO, A. D. 1985. Review of Bernadette J. Brooten *Women Leaders in the Ancient Synagogue*. *Rivista Storica Italiana*, vol. 97, 325–327.

MOMIGLIANO, A. D. 1985. Review of Bernhard Bischoff *Anecdota novissima. Texte des vierten bis sechzehnten Jahrhunderts*. *Ibid.*, 328–329.

ROSEN, F. (Editor.) 1986. *The Bentham Newsletter*, no. 10, June. 59 pp.

ROSEN, F. (Editor.) 1986. *Polis*, vol. 5, no. 2. 51 pp.

ROSEN, F. 1985. Bentham. In *The Social Science Encyclopedia*. Adam and Jessica Kuper (editors). (London: Routledge and Kegan Paul).

ROSEN, F. 1986. Legitimacy: A Utilitarian View. In *Legitimacy/Légitimité*, 67–78. A. Moulakis (editor). (Berlin: Walter de Gruyter).

ROSEN, F. 1985. Utilitarianism and Justice: A Note on Bentham and Godwin. *Enlightenment and Dissent*, no. 4, 47–52.

ROSEN, F. 1985. Review of R. Harrison *Bentham (Arguments of the Philosophers)*. *Philosophy*, vol. LX, April.

ROSEN, F. 1985. Review of Lotte & Joseph Hamburger *Troubled Lives: John and Sarah Austin*. Louis Crompton *Byron and Greek Love: Homophobia in 19th-Century England*. *The Bentham Newsletter*, X, 53–55, June.

RUSSELL, C. S. R. 1985. The Catholic Wind. In *For Want of a Horse*, 103–107. John M. Merriman (editor). (Lexington, Mass).

RUSSELL, C. S. R. 1985 *Catalogue of Craven MSS*. Phillips & Co. Sale Catalogue. November.

SCHOFIELD, P. S. 1986. Economy as applied to Office. *The Bentham Newsletter*, X, 41–43.

WELCH, M. G. 1985. Rural settlement patterns in the Early and Middle Anglo-Saxon periods. *Landscape History*, vol. 7, 13–25.

WELCH, M. G. 1985. Button brooches, clasp buttons and face masks. *Medieval Archaeology*, vol. 29, 142–145.

WELCH, M. G. 1986. The Finds, in Compton: The Anglo-Saxon Cemetry at Appledown (SU 793 153). *The Archaeology of Chichester and District 1985*, vol. 30. (Chichester: Chichester District Council).

WELCH, M. G. 1985. Review of J. Hines *The Scandinavian Character of Anglian England in the pre-Viking period*. *Norwegian Archaeological Review*, vol. 18, 136–138.

WELCH, M. G. 1986. Review of J. N. L. Myres *The English Settlements*. *Nature*, vol. 321, no. 6067, 15–21 May, 208.

HISTORY OF ART

BOUCHER, BRUCE 1986. Detroit and Fort Worth: sculpture in the time of Donatello. *The Burlington Magazine*, vol. cxxvii, 65–68.

BOUCHER, BRUCE 1986. San Girolamo. In *Donatello ei suoi*, 172–174. G. Bonsanti and A. Darr (editors). (Florence: Casa Usher).

COOKE, LYNNE 1986. Anish Kapoor: Mnemic Migrations. In *Anish Kapoor* (Exhibition catalogue) 4–17. Kunstnernes, Hus, Oslo.

COOKE, LYNNE 1986. Paragone Rediscovered: the painter–sculptor in the twentieth-century. In *'In tandem, the Painter-Sculptor in the Twentieth Century* (Exhibition catalogue). Whitechapel Gallery, London.

COOKE, LYNNE 1986. Victor Willing: thought made in the mouth. In *Victor Willing* (Exhibition catalogue), 9–18. Whitechapel Gallery, London.

COOKE, LYNNE 1986. Lisa Milroy, taking the side of things. *Artscribe*. June/July, 42–45.

COOKE, LYNNE 1986. Alison Wilding: sailing on. *Artscribe*, April/May, 46–48.

FORD, C. 1986. The lie of the land: the foundations of painting and the history of art. *Dutch Crossing*, no. 26, 10–33.

GRETTON, T. 1986. New lamps for old. In *The New Art History*, 63–74. F. Borgello and A. L. Rees (editors). (London: Camden Press).

WESTON, HELEN 1986. Prud'hon 'Justice and Divine Vengeance pursuing Crime: Louvre, Paris. *The Burlington Magazine*, November.

ITALIAN

AQUILECCHIA, G. (Editor) 1985. Giordano Bruno, *Dialoghi Italiani:* I. Dialoghi Metafisici, II. Dialoghi Morali, ristampati con note di G. Gentile (3rd edition, revised). (Florence: Sansoni) (Italian.) 1242 pp.

AQUILECCHIA, G. 1985. 'Redazioni a stampa' originarie e seriori: considerazioni di un editore di testi cinquecenteschi. *La critica del testo: problemi di metodo ed esperienze di lavoro (Atti del Convegno di Lecce, 22–26 Octobre 1984)*, 67–80. (Rome: Salerno Editrice).

AQUILECCHIA, G. 1985. La sconosciuta 'Metoposcopia' di G. G. Della Porta, di una differenziata del Cardano e di quella del Magini attribuita allo Spontoni. *Filologia e Critica*, vol. 10, 307–324.

LEPSCHY, A. L. (with Rhodes, D. and Took, J.) (editors). 1986. *Book Production and Letters in the Western European Renaissance. Essays in Honour of Conor Fahy*. (London: MHRA.) 300 pp.

LEPSCHY, A. L. 1986. 'Quel libro del Mandavila . . . che me aveva tuto travaliato': A Presentation of the Italian incunables. *Ibid.*, 210–219.

LEPSCHY, A. L. 1986. Studi in inglese sul Boccaccio. *Studi sul Boccaccio*, vol. 14, 341–351.

LEPSCHY, A. L. 1985. I discorsi della *Gerusalemme Liberata*. *Lettere Italiane*, vol. 37, 204–219.

LINDON, J. M. A. 1985. Ugo Foscolo. In *European Writers, The Romantic Century*, vol. 5, 313–341. Jacques Barzun (editor). (New York: Charles Scribner's Sons).

LINDON, J. M. A. 1986. Italian Studies: Seicento and Settecento. *The Year's Work in Modern Language Studies*, vol. 46, 513–534.

MANZINI, M. R. 1986. On Control and Binding Theory. In *Proc. of NELS 16*, 322–327. S. Berman, J.-W. Choe and J. McDonough (editors). (University of Massachusetts, Amherst: GLSA).

MANZINI, M. R. 1986. 'On italian *si*'. In *Syntax and Semantics, Volume 19: The Syntax of Pronominal Clitics*, 241–262. H. Borer (editor). (New York: Academic Press).

PALANDRI, E. 1986. *Le pietre e il sale*. (Milan: Garzanti.) (Italian). 177 pp.

LATIN

CONSIDINE, P. 1984. Two Armenian Runners. *Annual of Armenian–Linguistics*, vol. V, 51–58.

CONSIDINE, P. 1985. The Indo-European origin of Greek mēnis 'wrath'. *Trans. of the Philological Society*, 144–170.

HORSFALL, N. M. 1985. La Leggenda di Enea. *Enciclopedia Virgiliana 2*, 221–229. (Rome: Istituto della Enciclopedia Italiana).

HORSFALL, N. M. 1985. Myth and mythography. *Echos du monde classique*, vol. 29, 393–410.

HORSFALL, N. M. 1985. Illusion and reality in Latin topographical writing. *Greece and Rome*, vol. 32, 197–208.

HORSFALL, N. M. 1985. CIL VI 37965 = CLE 1988 (epitaph of Allia Potestas): a commentary. *Zeitschrift für Papyrologie und Epigraphik*, vol. 61, 251–272.

HORSFALL, N. M. 1986. Virgil and the inscriptions: a reverse view. *Liverpool Classical Monthly*, vol. 11, 44–45.

SHARPLES, R. W. 1985. Cybele and loyalty to parents. *Liverpool Classical Monthly*, vol. 10, 133–134.

SHARPLES, R. W. 1986. Cicero's *Republic* and Greek political theory. *Polis*, vol. 5, no. 2, 30–50.

SKUTSCH, O. 1985. On the epigrams of Ennius. *Liverpool Classical Monthly*, vol. 10, 146–148.

SKUTSCH, O. 1985. Bemerkungen zu Iktus und Akzent, *Glotta*, vol. 63, 183–185.

SKUTSCH, O. 1985. Mrs. E. Housman's mistake? *Housman Society Journal*, vol. 12, 146.

WILLCOCK, M. M. 1985. *Cicero, Select Letters: A Companion to the Translation by L. P. Wilkinson*. (Bristol: Bristol Classical Press.) 76 pp.

LIBRARY, ARCHIVE AND INFORMATION STUDIES

BUXTON, A. B. 1985. Electronic publishing. In *New Methods and Techniques for Publishers and Learned Societies*, 103–144. M. Feeney (editor). (Leicester: Primary Communications Research Centre).

BUXTON, A. B. 1985. Communications and Discussion. *Ibid.*, 249–276.

BUXTON, A. B. 1986. Going Online. In *Brit-line: Directory of British Databases*, 2–8. H. Khayyat (editor). (Lingfield: Educational Data Information).

SAYERS, JANE E. 1985. English Charters from the Third Crusade. In *Tradition and Change: Essays in honour of Marjorie Chibnall*, 195–213. D. Greenway, C. Holdsworth and J. Sayers (editors). (Cambridge: Cambridge University Press).

THOMAS, D. L. 1986. *Western Samoa: Establishment of a National Archive*. (Paris: UNESCO, Technical Report.) 9 pp.

THOMAS, D. L. 1986. *Tonga – Establishment of a National Archive*. (Paris: UNESCO, Technical Report.) 6 pp.

TRENNER, L., BUXTON, A. B. 1985. Criteria for user–friendliness. In *9th International Online Information Meeting: London, 3–5 December 1985*, 279–287.

WATSON, A. G. (Editor.) 1985. *Books, Collectors and Libraries: Studies in the Medieval Heritage by N. R. Ker*. (London: Hambledon Press.) 528 pp.

WATSON, A. G. (Editor.) 1984. An early-twelfth-century manuscript fragment containing Cistercian customs, by N. R. Ker. *Analecta Cisterciensia*, vol. 40, 102–106.

WATSON, A. G. 1985. Robert Greene of Welby, alchemist and Count Palatine, *c.* 1467–1540. *Notes and Queries* New series, vol. 32, 312–313.

WATSON, A. G. 1986. John Twyne of Canterbury (d. 1581) as a collector of medieval manuscripts: a preliminary investigation. *The Library* 6th series vol. 8, 133–151.

PHILOSOPHY

BUDD, MALCOLM, 1985. *Music and the Emotions: The Philosophical Theories*. (London: Routledge and Kegan Paul.) 190 pp.

BUDD, MALCOLM, 1986. Wittgenstein on Sensuous Experiences. *The Philosophical Quarterly*, vol. 36. no. 143, 174–195; reprinted in *Mind, Causation and Action*, 64–85. Leslie Stevenson, Roger Squires and John Haldane (editors). (Oxford: Basil Blackwell).

HART, W. D. 1985. The Cake Problem. *Acta Philosophica Fennica*, vol. 38, 25–35.

HEINAMAN, R. E. 1985. Aristotle on Accidents. *J. of the History of Philosophy*, vol. 23, 311–324.

HONDERICH, TED, 1985. Political Obligation. In *Assent/Dissent*, 185–205. Joseph P. White (editor). (Dubuque: Kendall Hunt).

HONDERICH, TED, (General Editor.) 1985. *The Problems of Philosophy*. (London: Routledge and Kegan Paul).

HONDERICH, TED, 1986. Mind, Brain and Time: Rejoinder to Libet. *J. Theor. Biol.*, vol. 118, 367–375.
HONDERICH, TED, 29 April 1986. BBC External Services, 'A. J. Ayer, 50 Years a Philosopher'.
HONDERICH, TED, 3 May 1986. London Weekend Television, 'International Obligations'.
HONDERICH, TED, 27 July 1986. Independent Television Network, 'Philosophy and Law'.
UPTON, H. J. 1986. Review of Anthony Kenny. *The Ivory Tower: Essays in Philosophy and Public Policy*. *Mind*, vol. xcv (July), 398–400.
WOLLHEIM, RICHARD 1983. Flawed Crystals: James's The Golden Bowl and the Plausibility of Literature as Moral Philosophy. *New Literary History*, vol. 15, 185–192.

PHONETICS AND LINGUISTICS

ABBERTON, EVELYN, 1985. Diagnostic implications of phonological analysis? *The New Zealand Speech–Language Therapists' J.* vol. XL no. 1, 2–16.
ABBERTON, EVELYN, 1 July 1986. BBC World Service, 'The human voice'.
FOURCIN, A. J. 1 July 1986. BBC World Service, 'The human voice'.
HARRIS, J. 1985. *Phonological variation and change*. (Cambridge: Cambridge University Press.) xiii + 379 pp.
HARRIS, J. 1986. The lexicon in phonological variation. In *Perspectives on the English language in Ireland: Proc. of the 1st Symposium on Hiberno–English*. J. Harris, D. Little and D. Singleton (editors). Dublin 1985. (Dublin CLCS, Trinity College). 187–208.
HOUSE, J., JOHNSON, M. 1986. Natural nuclear tone modelling for speech synthesis-by-rule. In *Speech input/output: techniques and applications, I.E.E. Conference Publication No. 258*, London 1986. (London: I.E.E.) 194–199.
HOWARD, D. M., MAIDMENT, J. A., SMITH, D. A. J., HOWARD, I. S. 1986. Towards a comprehensive quantitative assessment of the operation of real-time fundamental frequency extractors. In *Speech input/output; techniques and applications, I.E.E. Conference Publication No. 258*, London 1986. (London: I.E.E.) 172–177.
HUCKVALE, M. 1986. Phonetic and acoustic variability of speech. In *Speech input/output; techniques and applications, I.E.E. Conference Publication No. 258*, London 1986. (London: I.E.E.) 54–58.
HUDSON, R. A. 1986. The limits of subcategorization. *Linguistic Analysis*, vol. 15, 235–255.
HUDSON, R. A. 1986. Some basic assumptions about linguistic and non-linguistic knowledge. *Quaderni di Semantica*, vol. 6, 284–287.
HUDSON, R. A. 1986. Sociolinguistics in grammar. *Sheffield Working Papers in Language and Linguistics*, vol. 2, 1–30.
ROSEN, S., BALL, V. 1986. Speech perception with the Vienna extra-cochlear single-channel implant: a comparison of two approaches to speech coding. *British Journal of Audiology*, vol. 20, 61–83.
SMITH, N. V. 1985. Chomsky. In *The Social Science Encyclopaedia*, 105–106. Adam and Jessica Kuper (editors). (London: Routledge and Kegan Paul).
SMITH, N. V. 1985. Introduction to R. H. Robins and V. Fromkin, *Linguistics and linguistic evidence: The LAGB Silver Jubilee Lectures, 1984*, ix–xi. (Newcastle upon Tyne: Grevatt and Grevatt).

SMITH, N. V. 1986. Review of R. C. Berwick and A. S. Weinberg *The grammatical basis of linguistic performance: language use and acquisition. J. of Linguistics*, vol. 22, 222–229.
WALLIKER, J., ROSEN, S., FOURCIN, A. J. 1986. Speech pattern prostheses for the profoundly deaf. In *Speech input/output; techniques and applications, I.E.E. Conference Publication No. 258*, London 1986. (London: I.E.E.) 194–199.
WASON, P. C. 1986. Trust in Writing. In *Toward a new understanding of literacy*, 285–302. Merald Wrolstad and Dennis Fisher, (editors). (New York: Praeger).
WELLS, J. C. 1985. English pronunciation and its dictionary presentation. In *Dictionaries, lexicography and language learning*, 45–51. R. Ilson, (editor). (Oxford: Pergamon Press in association with the British Council).
WELLS, J. C. 1985. Waringhien kiel leksikologo kaj leksikografo. In *Li kaj ni: festlibro de Akademio de Esperanto omaĝe al profesoro Garston Waringhien*, 359–367. R. Haupenthal, (editor). (Antwerp: TK).
WELLS, J. C. 1985. Sound changes in British and North American English and their synchronic consequences. In *Papers from the 5th International Conf. on methods in dialectology*, Victoria, B.C., 1985. H. J. Warkentyne, (editor), 47–54.
WELLS, J. C. 1986. A standardized machine-readable phonetic notation. In *Speech input/output; techniques and applications, I.E.E. Conference Publication No. 258*, London 1986. (London: I.E.E.) 134–137.
WELLS, J. C. (with Bladon, R. A. W.) 1985. *Draft report, Syndicate 1 – Machine-readable phonetic notation*. (London: Alvey Speech Group).
WELLS, J. C. 3 September 1985. Radio 2, John Dunn Show.
WELLS, J. C. 4 February 1986. Radio 2, John Dunn Show.
WELLS, J. C. 24 April 1986. Thames TV, Daytime.
WELLS, J. C. 21 May 1986. Radio 4, English Now.
WILSON, D. 1985. Pragmatics. In *The Social Science Encyclopaedia*, 639–640. Adam and Jessica Kuper (editors). (London: Routledge and Kegan Paul).
WILSON, D. (with Sperber, D.) 1986. *Relevance: Communication and Cognition*. (Oxford: Blackwell; Cambridge, Mass.: Harvard University Press).
WILSON, D. (with Sperber, D.) 1985. On choosing the context for utterance interpretation. In *Foregrounding Background*, 51–64. J. Allwood and E. Hjelmquist, (editors). (Lund: Doxa).
WILSON, D. (with Sperber, D.) 1986. On defining relevance. In *Philosophical Grounds of Rationality: Intentions, categories, ends*, 243–258. R. Grandy and R. Warner, (editors). (Oxford; Clarendon Press).
WILSON, D. (with Sperber, D.) 1986. Inference and implicature. In *Meaning and Interpretation*, 45–75. C. Travis, (editor). (Oxford: Blackwell).
WILSON, D. (with Sperber, D.) 1986. Loose talk. In *Proc. of the Aristotelian Society*, vol. LXXXVI, 1985–1986, 153–171.
WILSON, D. (with Sperber, D.) 1986. Pragmatics: an overview. *Trinity College Dublin, Centre for Language and Communication Studies, Occasional, Paper* no. 16, Spring 1986.

SCANDINAVIAN STUDIES

BARNES, M. P. 1984. The new runic finds from Illerup and the question of the twenty-second rune. *Saga och Sed*, 59–76.
BARNES, M. P. 1985. A note on Faroese /θ/>/h/. *Scripta Islandica*, vol. 36, 46–50.

BARNES, M. P. 1986. Reflexivisation in Faroese: A preliminary survey. *Arkiv för nordisk filologi*, vol. 101, 95–126.

FOOTE, P. G. 1985. Skandinavische Dichtung der Wikingerzeit. In *Neues Handbuch der Literaturwissenschaft*, 317–357. Klaus von See (editor). (Wiesbaden: Aula Verlag).

PERKINS, R. M. 1982–5. Rowing chants and the origins of *dróttkvæðr háttr*. *Saga-Book*, vol. XXI, 155–221.

PERKINS, R. M. 1985. Christian elements in *Flóamanna saga*. In *6th International Saga Conference 28 July–2 August 1985, Workshop papers* I–II, 793–811.

PERKINS, R. M. 1985. *Flóamanna saga*. In *Dictionary of the Middle Ages*, 89–90. Joseph R. Strayer (editor). (New York: Charles Scribner's Sons).

WALTON, S. J. 1985. To engelskmenn om norsk språkpolitikk: Samtale med Peter Trudgill. *Syn og Segn*, vol. 91, 355–360.

WALTON, S. J. Ivar Aasen: samfunnskritikar og språkmann. *Mål og makt*, vol. 15, IV, 2–22.

WALTON, S. J. 1985. The nynorsk movement today. *The Norseman*, vol. 26, II, 14–16.

SPANISH AND LATIN AMERICAN STUDIES

CUMMINS, J. S. 1986. *Jesuit and Friar in the Spanish Expansion of the East*. (London: Variorum Reprint.) 1–334 pp.

CUMMINS, J. S. 1986. 'Las Casas Goes East', The Hakluyt Society Annual Lecture for 1985. (London: Hakluyt Publications.) 1–12 pp.

GARCÍA GÓMEZ, A. M. 1986. *The Legend of the Laughing Philosopher and its Presence in Spanish Literature: 1500–1700*. (2nd edit.) (Córdoba: Servicio de Publicaciones de la Universidad de Córdoba.) Monografías no. 7, vi + 292 pp.

MORENO ALONSO, M. 1985. Minuta de Reflexiones Políticas. Primera Parte. *Revista de Estudios Políticos* (Nueva Epoca), no. 43, 105–160.

MORENO ALONSO, M. 1985. Minuta de Reflexiones Políticas. Segunda Parte. *Revista de Estudios Políticos* (Nueva Epoca), no. 44 (1985), 205–261.

MORENO ALONSO, M. 1985. Aguardientes y Alcoholismo en el México Colonial. *Cuader nos Hispanoamericanos*, no. 424, 81–96.

PARKER, A. A. 1985. *The Philosophy of Love in Spanish Literature* (Edinburgh: Edinburgh University Press.) ix + 245 pp.

TORRENTS, N., ABEL, C. (Editors.) 1986. *José Martí: Revolutionary Democrat* (London: The Athlone Press.) xviii + 238 pp.

TORRENTS, N. 1986. Passion and order in *Amistad funesta*. *Ibid.*, 176–191.

FACULTY OF LAWS

AUSTIN, R. C. 1985. Freedom of information: The Constitutional Impact. In *The Changing Constitution*, 332–366. J. L. Jowell and D. Oliver (editors). (Oxford: Oxford University Press).

AUSTIN, R. C. 1985. The Miners' Strike – Public Order Prophylactics. In *Some Legal Issues Arising out of the Miners' Strike 1984/85*, 12–20. D. Oliver (editor). (London: UCL Law Faculty).

AUSTIN, R. C. 1986. The Westland Affair – Open Government by Error. In *The Westland Affair*, 23–33. D. Oliver (editor). (London: UCL Law Faculty).

BUTLER, W. E. 1986. *Anglo-American and Socialist Legal Systems*. (Kyoto: Horitsubunka-sha.) (In Japanese) iii + 155 pp.

BUTLER, W. E. 1985. *Centre for the Study of Socialist Legal Systems. Third Annual Report.* 1984. (London: UCL). 20 pp.

BUTLER, W. E. (Editor and Transl.) 1985. *Collected Legislation of the USSR and Constituent Union Republics:* Constitutions Supplement. (Dobbs Ferry: Oceana Publications.) 410 pp.

BUTLER, W. E. (Editor with V. N. Kudriavtsev.) 1985. *Comparative Law and Legal System: Historical and Socio-Legal Perspectives*. (Dobbs Ferry: Oceana Publications.) x + 151 pp.

BUTLER, W. E. 1985. Acknowledgements and Introduction. *Ibid.*, vii–x.

BUTLER, W. E. 1985. The inter-dynamics of International and Municipal Law. *Ibid.*, 37–47.

BUTLER, W. E. (Editor.) 1986. *International Law: Catalogue 2*. (Zug: IDC). 29 pp.

BUTLER, W. E. (Editor.) 1986. *Coexistence: Justice and Comparative Law*. XXIII, nos. 1–2, 188 pp.

BUTLER, W. E. 1986. Soviet Criminal Law and Procedure in English Pedagogical Perspective. *Ibid.*, 5–13.

BUTLER, W. E. (Editor.) 1985. *The Law of the Sea and International Shipping: Anglo-Soviet Post-UNCLOS Perspectives*. (Dobbs Ferry: Oceana Publications.) x + 432 pp.

BUTLER, W. E. 1985. Anglo-Soviet links and the Law of the Sea. *Ibid.*, v–viii.

BUTLER, W. E. 1985. State practice and the development of the International Law of the Sea. *Ibid.*, 3–14.

BUTLER, W. E. (Editor and Transl.) 1986. *The USSR, Eastern Europe and the Development of the Law of the Sea: 1986 Supplement*. (Dobbs Ferry: Oceana Publications.) 210 pp.

BUTLER, W. E. 1985. Comparative Approaches to International Law. In *Recueil des cours, CXC*, 9–89. (The Hague: Martinus Nijhoff).

BUTLER, W. E. 1986. The Legal System. In *The Soviet Union and Eastern Europe*, 536–546. G. Schöpflin (editor). (London: Muller, Blond & White).

BUTLER, W. E. 1986. Prepodovanie sovetskogo ugolovnogo prava i protsessa v Anglii. In *SSSR – Angliia: Iustitsiia i sravnitel'noe pravovedenie*, 76–86. V. M. Savitskii (editor). (Moscow: Instituta gosudarstva i prava Akademii nauk SSSR).

BUTLER, W. E. 1985. Socialist International Institutions and the New International Economic Order. In *Modern Legal Systems Cyclopedia*, vol. VIII, 543–552. K. R. Redden (editor). (Buffalo: W. S. Hein).

BUTLER, W. E. 1985. Soviet Law and Socialist Legal Systems. In *Research on the Soviet Union, Eastern Europe and China*, 36–38. W. V. Wallace (editor). (Glasgow: Institute of Soviet and East European Studies).

BUTLER, W. E. 1985. The use and misuse of the Comparative Method in International Law. In *International Law and the Grotian Heritage*, 214–215. (The Hague: T.M.C. Asser Institute).

BUTLER, W. E. 1985. F. P. Veselovskii and the Law of Nations. *Israel Law Review*, vol. 20, 167–174.

BUTLER, W. E. 1986. The Ballard Collection of Russian Bookplates. *Yale University Library Gazetter*, vol. 60, nos. 3–4, 145–160.

BUTLER, W. E. 1985. Exlibris of Leslie C. Benenson. *Nordisk Exlibris Tidsskrift*, vol. 37, 105–112.

BUTLER, W. E. (with Pavlova, G.) 1985. Russian Royal Bookplates. *The Bookplate Journal*, vol. 3, 51–64.

BUTLER, W. E. 1986. Katazome Bookplates. *The Bookplate Journal*, vol. 4, 29–37.

BUTLER, W. E. 1985. Komekon to Daisangoku. *Jurist*, no. 11, 78–83. [In Japanese].

BUTLER, W. E. (Transl.) 1986. Agreement on economic and technical cooperation in the construction and conversion of industrial installations in the People's Republic of China. *International Legal Materials*, vol. 25, 379.

BUTLER, W. E. (Transl.) 1985. Sino-Soviet Agreements on economic and technical cooperation; on creation of the Soviet–Chinese Commission for Economic, Commercial, and Scientific–Technical Cooperation; and on Scientific–Technical Cooperation. *International Legal Materials*, vol. 24, 1100–1103.

BUTLER, W. E. (Transl.) 1985. Council of Mutual Economic Assistance–Nicaragua: Agreement on Cooperation. *Ibid.*, 1408–1410.

BUTLER, W. E. (Transl.) 1985. Rules for navigation and sojourn of foreign warships in the territorial and internal water and ports of the USSR. *Ibid.*, 1715–1722.

CHENG, B. 1985. Flight from justiciable to auto-interpretative international law: from the Jay Treaty to the Schultz letter. In *Liber Amicorum Elie Van Bogaert*, 3–18. (Antwerp: Kluwer).

CHENG, B. 1986. La contribution de l'OACI à l'élaboration du droit international économique-intervention. *Société Française* pour le Droit International. In *Colloque de Nice – Les Nations Unies et le Droit internatinal économique, Nice, 30–31 May–1 June 1985.* (Paris: Pedone.) 262–263.

CHENG, B. 1986. The Contribution of Air and Space Law to the Development of International Law. *Current Legal Problems*, vol. 39, 181–210.

CHENG, B. 1986. Air transport law: national and international. *National Consumer Council: Air Transport and the Consumer: A Need for Change?* Working Paper VI, 208–238. (London: HMSO).

CHENG, B. 1986. Whose parking space is it anyway? Mapping out a legal minefield in the celestial outlands. *THES*, no. 708, 14–15.

DENNIS, I. H. 1986. The Codification of English Criminal Law. *Coexistence,* vol. 23, 43–53.

DENNIS, I. H. 1986. The Case for Codification. *J. of Criminal Law*, vol. 50, 161–170.

FREEMAN, M. D. A. 1985. *Violence in the Home – a Socio-Legal Study*. (re-issued in paperback). (Aldershot: Gower Press.) ix + 257 pp.

FREEMAN, M. D. A. 1986. *Essays in Family Law 1985.* (London: Stevens.) vii + 118 pp.

FREEMAN, M. D. A. 1986. *The Law and Practice of Custodianship*. (London: Sweet and Maxwell.) xviii + 156 pp

FREEMAN, M. D. A. (with Lord Lloyd of Hampstead) 1985. *Lloyd's Introduction to Jurisprudence* (5th edition). (London: Stevens.) xliii + 1257 pp.

FREEMAN, M. D. A. 1985. English Family Law. In *Comparative Law and Legal Systems: Historical and Socio-Legal Perspectives*, 129–141. W. E. Butler and V. N. Kudriavtsev (editors). (Dobbs Ferry: Oceana Publications).

FREEMAN, M. D. A. 1985. Towards a Critical Theory of Family Law (Inaugural Lecture). *Current Legal Problems*, vol. 38, 153–185.

FREEMAN, M. D. A. 12 October 1985. Radio 4, Soundings.

FREEMAN, M. D. A. 5 March 1986. Capital Radio, Child Brides.

GRAY, J. E. 1985. Policing the city: the new regulatory framework. In *English Reports III Anglo-Polish Legal Colloquium, Warsaw, Poland, 9–16 February 1985*, 75–89.

GRAY, J. E., DENTON, R. 1986. Some Company Law Problems arising from the Westland Case. In *The Westland Affair*, 42–51. D. Oliver (editor). (London: UCL Law Faculty).

GUEST, S. F. D. 1986. Pravilo o nedopustimosti ispol'zovaniia v kachestre dokazatel-'stva svidetel'stva so slov drugikh lits. In *SSSR – Angliia: Iustitsiia i sravnitel'noe pravovedenie (materialy Sovetsko – Angliiskogo Simpoziuma)*, 123–136. V. M. Savitskii (editor), Moscow, 1984. (Moscow: Instituta gosudarstva i prava Akademii nauk SSSR).

GUEST, S. F. D. 1986. Implied assertions under the English rule against hearsay. *Coexistence*, vol. 23, 77–84.

GUEST, S. F. D. 1986. Review of Philip Soper *A Theory of Law*. *Law Quarterly Review*. vol. 102, 332–335.

HARDY IVAMY, E. R. 1985. *Dictionary of Company Law* (2nd edition). (London: Butterworths). 264 pp.

HARDY IVAMY, E. R. 1985. *Marine Insurance* (4th edition). (London: Butterworths.) 613 pp.

HARDY IVAMY, E. R. *Casebook on Carriage by Sea* (6th edition). (London: Lloyd's of London Press Ltd.) 221 pp.

HARDY IVAMY, E. R. 1986. *Underhill's Principles of the Law of Partnership* (12th edition). (London: Butterworths.) 215 pp.

HEPPLE, B. A. (Editor and co-author with others.) 1986. *The Making of Labour Law in Europe: a comparative study of 9 countries up to 1945*. (London: Mansell.) 401 pp + index.

HEPPLE, B. A. (with Fredman, S.) 1986. *Labour Law and Industrial Relations in Great Britain*. (Deventer, Netherlands: Kluwer.) 295 pp.

HEPPLE, B. A. 1985. The Scope and Function of the English Law of Tort. In *Comparative Law and Legal Systems: Historical and Socio-Legal Perspectives*, 115–127. W. E. Butler and V. N. Kudriavtsev (editors). (Dobbs Ferry: Oceana Publications).

HEPPLE, B. A. (with Brown, W.) 1985. The Monitoring of Labour Legislation. In *Industrial Relations and the Law in the 1980s*, ix–xv. P. Fosh and C. R. Littler (editors). (London: Gower).

HEPPLE, B. A. 1986. Great Britain. In *Fifty Years of Labour Law and Social Security*, 101–120. M. G. Rood (editor). (Deventer, Netherlands: Kluwer).

HEPPLE, B. A. 1986. Tort. In *All England Law Reports Annual Review 1985*, 294–311. Jane Allen (editor). (London: Butterworths).

HEPPLE, B. A. 1985. Equality and Prohibition of Discrimination in Employment in Great Britain. *Bull. of Comparative Labour Relations*, vol. 14, 117–130.

HEPPLE, B. A. 1986. Restructuring Employment Rights. *Industrial Law J.*, vol. 15, 69–83.

HEPPLE, B. A. 1986. Westland Affair: What about the Workers? *Current Legal Problems*, vol. 39, 259–268.

HUTCHINSON, D. N. 1985. Opposability in the Law of the Sea. In *English Reports III Anglo-Polish Legal Colloquium, Warsaw, Poland, 9–16 February 1985*, 89–120.

HUTCHINSON, D. N. 1985. The concept of natural prolongation in the jurisprudence concerning delimitation of continental shelf areas. *The British Year Book of International Law*, vol. 55, 133–187.

JOWELL, J. L. and OLIVER, D. (Editors.) 1985. *The Changing Constitution*. (Oxford: Oxford University Press.) xix + 377 pp.
JOWELL, J. L. 1985. The Rule of Law Today. *Ibid.*, 3–22.
JOWELL, J. L. (with Gain, N.) 1986. Etude de cas: la construction d'une autoroute. In *Le Contôle de L'Administration en Europe de L'Est et de L'Ouest*, 251–268. G. Braibant, J. Letowski and C. Wiener (editors). (Paris: Centre National de la Recherche Scientifique).
JOWELL, J. L. (with Millichap, D.) 1986. The Enforcement of Planning Law. *J. of Planning and Environmental Law*, 482–498. (London: Sweet and Maxwell).
JOWELL, J. L. 1985. Principle or Policy? Review of Ronald Dworkin *A Matter of Principle*. *The Listener*, 31 October.
KORAH, V. 1985. *Patent Licensing and EEC Competition Rules: Regulation 2349/84*. (Oxford: ESC Publishing.) xiv + 126 pp.
KORAH, V. 1986. *An Introductory Guide to EEC Competition Law and Practice*. (Oxford: ESC Publishing.) xxi + 177 pp.
KORAH, V. 1985. Current Practical Problems in Distribution. *Antitrust Law J.*, vol. 54, 653–661.
KORAH, V. 1985. Case Comment – The Velcro/Aplix Decision – Is There Sufficient Market Analysis in Individual Decisions after the Group Exemption? *EIPR*, vol. 10, 296–301.
KORAH, V. 1986. Pronuptia – Franchising: the Marriage of Reason and the EEC Competition Rules. *EIPR*, vol. 4, 99–103.
LEWIS, A. D. E. 1986. Digest 23.2.6. In *The Legal Mind. Essays for Tony Honore*, 135–141. N. McCormick and P. Birks (editors). (Oxford: Clarendon Press).
LEWIS, A. D. E. 1986. Translation of Book 27 and Book 45.1.51–59. in *The Digest of Justinian*, vol. II 781a–814a and vol. IV 657a–666a. T. Mommsen, P. Kruger and A. Watson (editors). (Pennsylvania: University of Pennsylvania Press).
LEWIS, A. D. E. 1986. Deciding the Law. Review of Wilfred E. Rumble *The Thought of John Austin*. *TLS*, 4322, 31 January, 120.
McLAUGHLIN, S. 1986. Review of Arthur T. Ginnings *Arbitration: A Practical Guide*. *LMCLQ*, vol. 1, 134.
NELKEN, D. 1983. 1985. Legislation and its Constraints: A Case-Study of the British 1965 Rent Act. In *Social Structure and Legal Structure*, 70–87. D. Khosla, C. Whelan and A. Podgorecki (editors). (London: Croom Helm).
NELKEN, D. 1985. Community involvement in crime control. *Current Legal Problems*, vol. 38, 239–267.
OLIVER, D. (Editor.) 1985. *Some Legal Issues Arising out of the Miners' Strike 1984/5*. (London: UCL Law Faculty). 26 pp.
OLIVER, D. 1985. The independence of the Judiciary. *Ibid.*, 21–26.
OLIVER, D. (Editor.) 1986. *The Westland Affair*. (London: UCL Law Faculty). 51 pp.
OLIVER, D. 1986. The political and constitutional aspects of the Westland Affair. *Ibid.*, 3–16.
OLIVER, D. 1985. The Parties and Parliament: representative or intra-party democracy? In *The Changing Constitution*, 103–126. Jeffrey Jowell and Dawn Oliver (editors). (Oxford: Oxford University Press).
OLIVER, D. 1986. Electoral Reform. *Catalyst*, October, 1–11.
PARKINSON, F. 1985. The Latin American contribution to the Law of the Sea. In *The Law of the Sea and International Shipping: Anglo-Soviet Post-UNCLOS Perspectives*, 139–172. W. E. Butler (editor). (Dobbs Ferry: Oceana Publications).

PARKINSON, F. 1985. Prize Law in the seventeenth and eighteenth centuries. *Ibid.*, 235–257.

PARKINSON, F. 1986. Latin America and the Antarctic: an exclusive club. *J. of Latin American Studies*, May, 433–451.

RIDEOUT, R. W. 1985. Labour Law in the United Kingdom. In *Comparative Law and Legal System: Historical and Socio-Legal Perspectives*, 101–114. W. E. Butler and V. N. Kudriavtsev (editors). (Dobbs Ferry: Oceana Publications).

RIDEOUT, R. W. 1986. The central arbitration committee. In *Encyclopedia on Tribunals Practice and Procedure*, section 13, chapter 9, 9/102–109. J. Bowers (editor). (London: Legal Studies and Services).

RIDEOUT, R. W. 1985. The illegality of supporting industrial action contrary to union rules. *Federation News*, vol. 34, no. 3, 34–35.

RIDEOUT, R. W. 1986. The trust of a union member. *Industrial Law J.* vol. 15, no. 1, 46–49.

RIDEOUT, R. W. 1986. Unfair dismissal – tribunal or arbitration. *Industrial Law J.* vol. 15, no. 2, 84–96.

ROSE, F. D. 1985. *Company Law*. (London: Pan Books Ltd.) 100 pp.

ROSE, F. D. 1985. *Kennedy's Law of Salvage* (5th edition, rewritten). (London: Stevens & Sons.) 584 + 249 pp.

ROSE, F. D. 1985. Summary of National Law of U.K. In *Maritime Liens and Claims*, 617–618. W. Tetley (author of main text). (London: Business Law Communications Ltd).

ROSE, F. D. 1986. Restitution for inland salvage. *Law Quarterly Review*, vol. 102, 185–191.

ROSE, F. D. 1986. Enhancement of salvage awards. *Lloyd's Maritime and Commercial Law Quarterly*, vol. 2, 152–156.

ROSE, F. D. 1986. The parol evidence rule. *Ibid.*, 157–158.

THOMAS, J. A. C. 1986. Translation of Books 18, 21, 35, 41, 42 and 47. In *The Digest of Justinian*, vol. II 513–543, 602–633; vol. III 182–225; vol. IV 487–566, 736–794. T. Mommsen, P. Krüger and A. Watson (editors). (Pennsylvania: University of Pennsylvania Press).

TWINING, W. L. 1985. *Theories of Evidence: Bentham and Wigmore*. (London: Weidenfeld and Nicholson; Stanford: Stanford University Press). 264 pp.

TWINING, W. L. (Editor.) 1986. *Legal Theory and Common Law*. (Oxford: Basil Blackwell.) 267 pp.

TWINING, W. L. 1986. Evidence and Legal Theory. *Ibid.*, 62–80.

TWINING, W. L. (with MacCormick, D. N.) 1986. Theory in the Law Curriculum. *Ibid.*, 238–254.

TWINING, W. L. (Editor with Kamenka E. and Summers, R.) 1986. *Sociological Jurisprudence and Realist Theories of Law*. (Berlin and Munich): Duncker and Humblot.) 381 pp.

TWINING, W. L. 1986. Identification and Misidentification in Legal Processes: Redefining the Problem. In *Samfunn Rett Rettferdighet (Festskrift til Torstein Eckhoff)*, 725–743. Stein Evju (editor). (Oslo: Tano).

TWINING, W. L. 1985. Taking Skills Seriously. *American Bar Foundation Symposium, London, July 1985*. (Reprinted in *The Commonwealth Legal Education Association Newsletter*, no. 44, appendix 1–5).

TWINING, W. L. 1985. The paperchase in England and Wales: An overview of legal education and training. *American Bar Association Conference, London July 1985*.

TWINING, W. L. 1985. Talk about Realism. *New York University Law Review*, vol. 60, 329–384.

USHER, J. A. 1985 and 1986. Annotations in Releases 36 and 37. In *Sweet and Maxwell's Encyclopedia of European Community Law*. (London: Sweet and Maxwell).

USHER, J. A. 1986. The Application of Community Law in National Courts. In *Halsbury's Laws of England* (4th edition, vol. 51, title European Communities). (London: Butterworths).

USHER, J. A. 1985. The 'Good Administration' of European Community Law. *Current Legal Problems*, vol. 38, 269–287.

USHER, J. A. 1985. The Scope of Community Competence – its Recognition and Enforcement. *J. of Common Market Studies*, vol. 24, 121–135.

USHER, J. A. 1986. Quotas and the Single Market. *European Law Review*, vol. 11, 210–213.

USHER, J. A. 1986. Review of Deniau and Druesne. *Le Marché Commun. Ibid.*, 183.

USHER, J. A. 7 November 1985. Independent Television News. News at One.

USHER, J. A. 8 November 1985. Radio 4, Law in Action.

USHER, J. A. 31 January 1986. Radio 4, Law in Action.

USHER, J. A. 28 February 1986. Radio 4, Law in Action.

VELJANOVSKI, C. G. (with Yarrow, G. and others) 1985. *The Effects of ITV and Other Media of Advertising on the BBC*. (London: HMSO). 65 pp.

VELJANOVSKI, C. G. 1986. An institutional analysis of Futures Contracting. In *Futures Markets: Their Establishment and Performance*, 12–41. B. A. Goss (editor). (London: Croom Helm).

VELJANOVSKI, C. G. (with Harris, D.) 1986. The use of economics to elucidate legal concepts – The Law of Contracts. In *Contract and Organisation: Legal Analysis in the Light of Economic and Social Theory*, 109–131. T. Daintith and G. Teuber (editors). (Berlin: W. de Gruyter).

VELJANOVSKI, C. G. (with Harris, D.) 1986. Liability for Economic Loss in Tort. In *The Law of Tort: Policies and Trends*, 45–71. H. Beale and M. Furmston (editors). (London: Duckworths).

VELJANOVSKI, C. G. 1986. Extracts in *Tort: Cases and Materials*, (3rd edition), 161–162. B. A. Hepple and M. H. Matthews (editors). (London: Butterworths).

VELJANOVSKI, C. G. 1986. Legal Theory, Economic Analysis and the Law of Torts. In *Legal Theory and Common Law*, 215–237. W. Twining (editor). (Oxford: Basil Blackwell).

VELJANOVSKI, C. G. 1986. Ekonomischeski aspekty ugolovnoi iustitsii. In *SSSR-Angliia: Iustitsiia i sravnitel'noe pravovedenie*, 64–76. V. M. Savitskii (Editor). (Moscow: Instituta gosudarstva i prava Akademii nauk SSSR).

VELJANOVSKI, C. G. 1986. The Role of Economics in the Common Law. *Research in Law and Economics*, vol. 7, 41–64.

VELJANOVSKI, C. G. 1986. Economic Theory about Tort. *Current Legal Problems*, 117–140.

VELJANOVSKI, C. G. 1986. The Economics of Criminal Law and Procedure. *Co-existence*, vol. 23, 137–153.

VELJANOVSKI, C. G. 1986. Deregulation in Britain. *Institute of Public Affairs Review*, Aut., 38–39.

WILLIAMS, C. G. A. 1986. Contracts of Adhesion in English Law. In *English Reports III Anglo-Polish Legal Colloquium, Warsaw, Poland, 9–16 February 1985*, 55–74.

FACULTY OF SCIENCE

BOTANY AND MICROBIOLOGY

ARMITAGE, J. P., EVANS, M. C. W. 1986. Evidence for the direct interaction of uncouplers with the bacterial flagellar motor. *Biochem. Soc. Trans.*, vol. 14, 62.

ATKINSON, Y. E., FORD, R. C., EVANS, M. C. W. 1986. Kinetic signals arising from photosystem 2 in higher plant cyanobacteria and a green algae. *Biochem. Soc. Trans.*, vol. 14, 50.

BELL, P. R. (with Sniezko, R.) 1985. The development of the colpus in the pollen grains of *Oenothera suaveolens*. *Pollen et Spores*, vol. 27, no. 2, 135–144.

BREARLEY, C. 1985. *Iris reticulata*. *J. of the Danish Iris and Lily Society*, vol. 3, 3–9.

EPPERLEIN, M. M., STRANGE, R. N. (with Noronha-Dutra, A. A.) 1986. Involvement of the hydroxyl radical in the abiotic elicitation of phytoalexins in legumes. *Physiol. Mol. Plant pathol.*, vol. 28, 67–77.

EVANS, M. C. W. 1985. The function of the quinone electron acceptors in electron gating by photosystem II and purple bacterial reaction centres. *Physiol. Vegetale*, vol. 23, 563–569.

EVANS, M. C. W. 1986. Evidence for two tightly bound quinones in the electron acceptor complex of photosystem 2. *FEBS Letts.*, vol. 195, 290–294.

EVANS, M. C. W., FORD, R. C. 1986. Electron transfer processes in photosynthetic reaction centres. *Biochem. Soc. Trans.*, vol. 14, 12–15.

FAY, P. (with Wyman, M.) 1986. Underwater light climate and the growth and pigmentation of planktonic blue-green algae (Cyanobacteria). I. The influence of light quantity. *Proc. R. Soc. Lond. B.*, 227, 367–380.

FAY, P. (with Wyman, M.) 1986. Underwater light climate and the growth and pigmentation of planktonic blue-green algae (Cyanobacteria). II. The influence of light quality. *Proc. R. Soc. Lond. B.*, 227, 381.393.

FAY, P. (with Wyman, M.) 1986. Interaction between light quality and nitrogen availability in the differentiation of akinetes in the planktonic cyanobacterium, *Gloeotrichia echinulata*. *Br. phycol. J.*, vol. 21, 147–153.

FORD, R. C., ATKINSON, Y. E., EVANS, M. C. W. (with Brettel, K., Schlodder, E., Witt, H. T.) 1985. Rapid electron transfer reactions in photosystem 2 preparations from spinach and *Phormidium laminosum*. *FEBS Letts.*, vol. 181, 83–94.

FORD, R. C., GALLAGHER, I., EVANS, M. C. W. 1986. Investigation of photosystem 2 reaction centre components. *Biochem. Soc. Trans.*, vol. 14, 54.

GOLDSMITH, F. B. (with Harrison, C. M., Morton, A. J.) 1986. Description and analysis of vegetation. In *Methods in Plant Ecology*, 437–524. P. D. Moore, S. B. Chapman (editors). (Oxford: Blackwell).

GOLDSMITH, F. B. 1986. Ecological value of Oxleas Wood. *Evidence to the Public Inquiry into the East London River Crossing*. (London: London Borough of Greenwich).

GOLDSMITH, F. B., GIRÓ, F. 1986. Los Prados de Siega de Los Picos de Europa, Asturias, Spain. *Discussion Papers in Conservation No. 43*. (London: University College London).

HATTON, J. C. (with Harrison, A. F., Dighton, J., Smith M. R.) 1985. A phosphorus deficiency bioassay for trees and grasses growing in low nutrient status soils. In *Proc. VIth International Colloquium for the Optimization of Plant Nutrition*. vol. 3, 957–963.

HATTON, J. C., TAYLOR, K. (with Harrison, A. F.) 1986. Application of a root bioassay for determination of P-deficiency in high altitude grassland. *J. Sci. Fd. Agric.*, vol. 37, 10–11.

HYAMS, J. S. 1986. Binding of *Tetrahymena* dynein to axonemes of *Marsilea* lacking the outer dynein arm. *J. Cell Sci.*, vol. 73, 299–310.

HYAMS, J. S., CAMPBELL, C. J., 1985. Widespread absence of outer dynein arms in the spermatozoids of lower plants. *Cell Biol. Int. Reps.*, vol. 9, 841–848.

HYAMS, J. S. (with King, C. A.) 1985. Identification of proteins of the striated rootlet of *Tetrahymena* by immunofluorescence microscopy and immunoblotting with an anti-rootlet serum. *Eur. J. Cell Biol.*, vol. 38, 102–105.

MANSFIELD, R. W., EVANS, M. C. W. 1985. Optical difference spectrum of the electron acceptor A_0 in photosystem 1. *FEBS Letts.*, vol. 190, 237–241.

MANSFIELD, R. W. (with Anderson, J. M.) 1985. Transverse organisation of components of the chloroplast cytochrome complex. *Biochim. Biophys. Acta*, vol. 809, 435–444.

MANSFIELD, R. W., EVANS, M. C. W. 1986. Primary electron acceptors of photosystem I. *Biochem. Soc. Trans.*, vol. 14, 49.

MARKS, J. M., HYAMS, J. S., 1985. Localization of F-actin through the cell division cycle of *Schizosaccharomyces pombe*. *Eur. J. Cell Biol.*, vol. 39, 27–32.

NOUR, J., PRESS, M. C., STEWART, G. R., TUOHY, J. 1986. Africa in the grip of witchweed. *New Scientist*, vol. 109, 44–46.

NUGENT, J. H. A. 1986. Molecular sizes of photosynthetic membrane protein complexes. *Biochem. Soc. Trans.*, vol. 14, 60.

PENNELL, R. I., HYAMS, J. S., BELL, P. R. 1986. The blepharoplast of *Marsilea*: a structure concerned with basal body assembly lacking tubulin. *Eur. J. Cell Biol.*, vol. 40, 238–241.

PENNELL, R. I., BELL, P. R. 1986. Microsporogenesis in *Taxus baccata* L.: the formation of the tetrad and development of the microspores. *Ann. Bot.*, vol. 57, 545–555.

PENNELL., R. I., BELL, P. R. 1986. The development of the male gametophyte and spermatogenesis in *Taxus baccata* L. *Proc. R. Soc. Lond. B.*, vol. 228, 85–96.

PRESS, M. C., SHAH, N., STEWART, G. R. 1986. The parasitic habit: trends in metabolic reductionism. In *Biology and Control of Orobanche*, 96–106. S. J. Borg (editor). (Wageningen, The Netherlands: LH/VPO).

ROWBURY, R. J. 1986. Alkali sensitivity in plasmid-bearing strains of *Escherichia coli*. *Letts. Appl. Microbiol.*, vol. 2, 17–19.

SMART, N. O. E., HATTON, J. C. (with Spence, D. H. N.) 1985. The effect of long-term exclusion of large herbivores on vegetation in Murchison Falls National Park, Uganda. *Biol. Cons.*, vol. 33, no. 3, 229–245.

STEWART, G. R. 1986. The Growing Threat. *The Guardian*, 7 February.

STRANGE, R. N. (with Robeson, D. J., Strobel, G. A.) 1985. The identification of a major phytotoxic component from *Alternaria macrospora* as αβ-dehydrocurvularin. *J. Nat. Prods.*, vol. 48, 139–141.

STRANGE, R. N. (with others) 1985. Isolation of the phytoalexin medicarpin from leaflets of *Arachis hypogaea* and related species of the tribe Aeschynomeneae. *Z. fur Naturforschung.*, vol. 40c, 313–316.

TEWARI, R., SMITH, D. G., ROWBURY, R. J. 1985. Effect of ColV plasmids on the hydrophobicity of *Escherichia coli*. *FEMS Letts.*, vol. 29, 245–249.

TEWARI, R., SMITH, D. G., ROWBURY, R. J. 1986. A motility lesion in ColV$^+$ *Escherichia coli* strains and its possible clinical significance. *Ann. Inst Pasteur (Microbiol).*, vol. 137A, 223–237.

TUOHY, J., STEWART, G. R. (with Smith, E. A.) 1986. The parasitic habit: trends in morphological and ultrastructural reductionism. In *Biology and control of Orobanche*, 86–95. S. J. Borg (editor). (Wageningen, The Netherlands: LH/VPO).

CHEMISTRY

ALI, H., LEUNG, K. B. P., PEARCE, F. L. (with Hayes, N. A., Foreman, J. C.) 1986. Comparison of the histamine-releasing action of substance P on mast cells and basophils from different species and tissues. *Int. Archs Allergy appl. Immun.*, vol. 79, 413–418.

ALI, H., PEARCE, F. L. (and others) 1985. The ability of thapsigargin and thapsigargicin to activate cells involved in the inflammatory response. *Brit. J. Pharmacol.*, vol. 85, 705–712.

ALI, M., RIDD, J. H. 1986. The nitrous acid-catalysed nitration of *p*-nitrophenol in aqueous nitric acid. Kinetic evidence for reaction through the *p*-nitrophenoxyl radical. *J. chem. Soc. Perkin II*, 327–331.

AMBROSE, D. 1986. The correlation and estimation of vapour pressures. V. Observations on Wagner's method of fitting equations to vapour pressures. *J. chem. Thermodynamics*, vol. 18, 45–51.

ANDERSON, J. E. (with Henriksen, L.) 1985. The barrier to rotation about the selenium–selenium bond in diselenides. A dynamic n.m.r. study. *J. chem. Soc. chem. Comm.*, 1397–1398.

ARCE, A. J., DEEMING, A. J. (and others) 1986. Molecular structures and dynamic behaviour of two isomers of $[Ru_3(\mu\text{-}H)(\mu_3\text{-}Me_2NC_4H_4)(CO)_9]$ formed from 1-dimethylaminobut-2-yne and containing η^2-alkene-1,3-diyl and η^2-alkene-1,2-diyl ligands respectively. *J. chem. Soc. Dalton*, 1459–1463.

ARCE, A. J., DEEMING, A. J., DONOVAN-MTUNZI, SUSAN, KABIR, S. E. 1985. Acid-induced displacement of acetaldehyde from a μ-vinyloxy-triosmium cluster. *J. chem. Soc. Dalton*, 2479–2482.

ASHCROFT, M. R., BOUGEARD, P., BURY, A., COOKSEY, C. J., JOHNSON, M. D. 1985. Homolytic displacement at carbon. X. Toluenesulphonyl iodide as a source of toluenesulphonyl radicals for the formation of allyl-, benzyl-, cyclopropylcarbinyl-, spirocyclopropylcycloalkyl-, bicyclo[1.0.3]alkyl-, and bicyclo[1.0.4]-alkyl-4-tolylsulphones from organocobaloximes. *J. organometallic Chem.*, vol. 289, 403–415.

BABAN, JEHAN A., GODDARD, J. P., ROBERTS, B. P. 1986. Absolute rate coefficients for β-scission of amine-boryl radicals in solution. *J. chem. Research (s)*, 30–31.

BABAN, JEHAN A., GOODCHILD, N. J., ROBERTS, B. P. 1986. Electron spin resonance studies of radicals derived from 1,3,2-benzodioxaboroles. *J. chem. Soc. Perkin II*, 157–161.

BABAN, JEHAN A., MARTI, V. P. J., ROBERTS, B. P. 1985. Ligated boryl radicals. Part 2. Electron spin resonance studies of trialkylamine-boryl radicals. *J. chem. Soc. Perkin II*, 1723–1733.

BABAN, JEHAN A., ROBERTS, N. P., TSANG, ALICE C. H. 1985. Borylaminyl radicals. *N*-(9-borabicyclo[3.3.1]nonan-9-yl)-*N*-t-butylaminyl: a σ-aminyl radical. *J. chem. Soc. chem. Comm.*, 955–957.

BANTHORPE, D. V., BILYARD, HILARY J., WATSON, D. G. 1985. Pigment formation by callus of *Lavandula angustifolia*. *Phytochemistry*, vol. 24, 2677–2680.

BANTHORPE, D. V., BRANCH, STEPHANIE A. 1985. The biosynthesis of C_5-C_{20} terpenoid compounds. *Natural Product Reports.*, vol. 2, 513–524.

BANTHORPE, D. V., BRANCH, STEPHANIE A., NJAR, V. C. O., OSBORNE, M. G., WATSON, D. G. 1986. Ability of plant callus cultures to synthesize and accumulate lower terpenoids. *Phytochemistry*, vol. 25, 629–636.

BEST, S. P. (with Armstrong, R. S., Beattie, J. K.) 1984. Vibrational spectroscopic studies of trivalent hexa-aquo-cations: single-crystal Raman spectra between 275 and 1200 cm^{-1} of the caesium alums of titanium, chromium, iron, gallium, and indium. *J. chem. Soc. Dalton Trans.*, 2611–2624.

BEST, S. P., CLARK, R. J. H. 1985. The identification of an electronic Raman transition for the hexa-aquavanadium(III) ion. A direct spectroscopic determination of the trigonal field splitting of the $^3T_{1g}$ ground term. *Chem. Phys. Letters*, vol. 122, 401–405.

BLOODWORTH, A. J., BOWYER, K. J., MITCHELL, J. C. 1986. Alkylated pere-poxides: peroxonium vs. phenonium intermediates from β-haloalkyl *tert*-butyl peroxides and silver trifluoroacetate. *J. org. Chem.*, vol. 51, 1790–1793.

BLOODWORTH, A. J., CHAN, K. H., COOKSEY, C. J. 1986. Oxymetalation. 20. Conversion of cyclopropanes into 1,2-dioxolanes via *tert*-butyl peroxymercuriation, bromodemercuriation, and silver salt induced cyclization. *J. org. Chem.*, vol. 51, 2110–2115.

BLOODWORTH, A. J., COOKSEY, C. J. 1985. Oxymetallation. XIX. Preparation of the first oxymercurials derived from cyclopropane. *J. organomet. Chem.*, vol. 295, 131–135.

BLOODWORTH, A. J., COOPER, P. N. 1986. Nitratomercuriation of alkenes. *J. chem. Soc. chem. Comm.*, 709–710.

BLOODWORTH, A. J., EGGELTE, H. J. 1985. Use of deuteriation, endoperoxidation, and ^2H nuclear magnetic resonance spectroscopy to demonstrate thermal [1,5] sigmatropic rearrangements in cycloalka-1,3-dienes. *J. chem. Soc. Perkin II*, 1035–1038.

BLOODWORTH, A. J., EGGELTE, H. J. (with Nelsen, S. F., Teasley, M. F.). 1985. Secondary bicyclic peroxide cation radicals. *J. org. Chem.*, vol. 50, 3299–3302.

BLOODWORTH, A. J., MELVIN, T., MITCHELL, J. C. 1986. Oxygen transfer by dialkylperoxonium ions. *J. org. Chem.*, vol. 51, 2612–2613.

BOUGEARD, P., BURY, A., COOKSEY, C. J., JOHNSON, M. D., MITCHELL, S., OWENS, P. A., RAJAH, FAMIDA (with Bongars, C.) 1985. Homolytic displacement at carbon. XI. Intramolecular homolytic displacement as a route to cyclopentane and tetrahydrofuran derivatives from hex-5-enyl- and hex-3-oxo-5-enylcobaloximes. *J. organometallic Chem.*, vol. 289, 163–171.

BOYAR, E., DEEMING, A. J. (with Henrick, K., McPartlin, M., Scott, A.) 1986. Carbon-sulphur and carbon-hydrogen bond cleavages in the reactions of phenyl vinyl sulphide with triosmium clusters: crystal structure determination of $[Os_3(\mu\text{-SPh})[\mu\text{-CH}{=}CH_2)(CO)_{10}]$. *J. chem. Soc. Dalton*, 1431–1435.

BOYAR, ESTHER, DEEMING, A. J., KABIR, S. E. 1986. Nucleophilic addition at the bridging ethynyl ligands in $[Os_3H(\mu_3\text{-C}{\equiv}CH)(CO)_9]$ and hydrolytic cleavage of the carbon–carbon triple bond. *J. chem. Soc. chem. Comm.*, 577–579.

BOYAR, E., DEEMING, A. J., ROTHWELL, I. P. (with Henrick, K., McPartlin, M.) 1986. Chelation of vinyl acetate and related unsaturated ketones: molecular structure of $[Os_3(CO)_{10}(CH_2{=}CHOCOMe)]$. *J. chem. Soc. Dalton*, 1437–1441.

BRAND, J. C., ROBERTS, B. P., STRUBE, R. 1985. An electron spin resonance study of the photolysis of azide ions in liquid ammonia: formation of imine radical anions in the presence of alkenes. *J. chem. Soc. Perkin II*, 1659–1663.

BUCKLEY, R. I., CLARK, R. J. H. 1985. Structural and electronic properties of some polymolybdates reducible to molybdenum blues. *Coord. Chem. Rev.*, vol. 65, 167–218.

BURNS, G. R., CLARK, R. J. H. (with Rollo, Joanne, R.) 1986. Raman and resonance Raman studies of tetraphosphorus triselenide. *Inorg. Chem.*, vol. 25, 1145–1149.

CALLOMON, J. H. (and others) 1985. Jurassic ammonite biogeography of western North America: the tectonic implications. In *Jurassic-Cretaceous biochronology and the paleogeography of North America*, 121–142. G. E. G. Westermann (editor). *Geol. Ass. Canada spec. Pap. 27.*

CALLOMON, J. H. 1985. A review of the biostratigraphy of the post-Lower Bajocian Jurassic ammonites of western and northern North America. *Ibid.*, 143–174.

CALLOMON, J. H. 1985. Reports of the Stage Working-Groups of the International Subcommission on Jurassic stratigraphy: Middle Jurassic, Callovian Stage. In *International Symposium on Jurassic Stratigraphy*, vol. I, 77–86. O. Michelsen and A. Zeiss (editors). (Copenhagen: Geological Survey of Denmark).

CALLOMON, J. H. 1985. Biostratigraphy, chronostratigraphy and all that – again! In *International Symposium on Jurassic Stratigraphy*, vol. III, 612–624. O. Michelsen and A. Zeiss (editors). (Copenhagen: Geological Survey of Denmark).

CALLOMON, J. H. (with Baldwin, S. A.) 1985. The Cardioceratidae: an exhibit to demonstrate an example of an evolutionary lineage in Jurassic ammonites. 44 pp, charts, casts. (Witham, Essex: Educational Palaeontological Reproductions).

CALLOMON, J. H. 1984. The measurement of geological time. *Proc. roy. Inst. G.B.* vol. 56, 65–99.

CALLOMON, J. H. 1985. The evolution of the Jurassic ammonite family Cardioceratidae. *Spec. Pap. Palaeontology*, vol. 33, 49–90, 4 pls.

CALLOMON, J. H. (with Birkelund, Tove) 1985. The Kimmeridgian ammonite faunas of Milne Land, central East Greenland. *Bull. Grønlands geol. Unders.*, vol. 153, 1–104, 23 pls.

CANOVESE, L., TOBE, M. L. 1986. Kinetics of the displacement of chloroacetate ion from *cis*-bis(chloroacetato)-bis(isopropylamine)-platinum(II) and the (chloroacetato)1,5-diamino-3-azapentane)-platinum(II) cation. *J. chem. Soc. Dalton*, 1107–1113.

CANOVESE, L., TOBE, M. L. (and others) 1986. Kinetics and mechanism of the reaction between dimethyl sulphoxide and dichloro(pyridine-2-carboxylato)-platinate(II) anion and the *cis-trans* isomerization of the products. X-ray crystal structure of *trans*-(O,S)chloro(dimethyl sulphoxide) (pyridine-2-carboxylato)platinum(II). *Ibid.*, 1101–1105.

CHAN, W., COURTNEIDGE, J. L., DAVIES, A. G., NEVILLE, A. G. (with Evans, J. C., Rowlands, C. C.) 1985. The e.s.r. spectrum of the tetra(1-adamantyl)cyclobutadiene radical cation. *Tetrahedron Letters*, vol. 26, 4121–4124.

CHENG, Y. S. P., GARRATT, P. J., NEOH, S. B., RUMJANEK, V. M. 1985. Synthesis and thermal rearrangement of 4-heterohepta-1,2,5,6-tetraenes. *Israel J. Chem.*, vol. 26, 101–107.

CHOTHIA, C. H. (with Novotny, J., Bruccoleri, R., and Karplus, M.) 1985. Domain association in immunoglobin molecules: the packing of variable domains. *J. molec. Biol.*, vol. 186, 651–663.

CHOTHIA, C. H. (with Janin, J.) 1985. Domains in proteins: definitions, location and structural principles. *Methods in Enzymology*, vol. 115, 420–430. (New York: Academic Press).

CHOTHIA, C. H. (with Lesk, A. M.) 1986. The relation between the divergence of sequence and structure in proteins. *EMBO J.*, vol. 5, 823–828.

CHOTHIA, C. H. 1986. The response of protein structures to amino acid sequence changes. *Phil. Trans. R. Soc. London*, vol. A317, 345–356.

CLARK, R. J. H. 1986. Investigation of one-dimensional species and of electrochemically generated species. Use of resonance Raman spectroscopy. In *Excited states and reactive intermediates*, vol. 307, 57–65. A. B. P. Lever (editor). (Washington: ACS Symposium Series).

CLARK, R. J. H. (with Hester, R. E.) (Editors.) 1985. *Advances in Infrared and Raman Spectroscopy.*, vol. 12 (Chichester: Wiley). xxi + 360 pp.

CLARK, R. J. H., CROUD, V. B. 1986. Mixed-valence nickel(II)/platinum(IV) chain complexes. Electronic, infrared, Raman, and resonance Raman studies. *Inorg. Chem.*, vol. 25, 1751–1756.

CLARK, R. J. H., CROUD, V. B. (with Dawes, Helen M., Hursthouse, M. B.) 1986. The methylamine analogues of Wolffram's red and Reihlen's green: syntheses, infrared, electronic, Raman and resonance-Raman spectroscopy, and X-ray crystal structures of chain chlorine- and bromine-bridged platinum(II,IV) complexes of methylamine. *J. chem. Soc. Dalton*, 403–410.

CLARK, R. J. H., DINES, T. J. 1986. Resonanz-Raman-Specktroskopie und ihre Anwendung in der anorganischen Chemie. *Angew. Chem.*, vol. 98, 131–160.

CLARK, R. J. H., DINES, T. J. 1986. Resonance Raman spectroscopy, and its application to inorganic chemistry. *Angew. Chem., internat. Ed. Engl.*, vol. 25, 131–158.

CLARK, R. J. H., DINES, T. J. (with Sinclair, T. J.) 1986. Resonance Raman spectroscopic study of 2,4,6-trinitrotoluene and its adduct with the SO_3^{2-} ion. *Analyst*, vol. 111, 411–413.

CLARK, R. J. H., DINES, T. J., DOHERTY, J. M. 1985. Resonance Raman spectroscopy of the manganate(VI) ion: band excitation profiles and excited state geometry. *Inorg. Chem.*, vol. 24, 2088–2091.

CLARK, R. J. H., HEMPLEMAN, A. J. (with Dawes, Helen M., Hursthouse, M. B., Flint, C. D.) 1985. Dirhodium(II,II) tetra-acetate complexes with axially co-ordinated triphenylstibine, triphenylarsine, and dibenzyl sulphide ligands. The syntheses, properties, and X-ray crystal structures of $[Rh_2(O_2CMe)_4(SbPh_3)_2]$, $[Rh_2(O_2CMe)_4(AsPh_3)_2]$, and $[Rh_2(O_2CMe)_4\{S(CH_2Ph)_2\}_2]$. *J. chem. Soc. Dalton*, 1775–1780.

CLARK, R. J. H., HEMPLEMAN, A. J. (with Flint, C. D.) 1986. Rhodium–rhodium stretching frequencies in ^{16}O, ^{18}O, and CD_3 derivatives of $Rh_2(O_2CCH_3)_4(PPh_3)_2$. *J. Amer. chem. Soc.*, vol. 108, 518–520.

CLARK, R. J. H., KURMOO, M. (with Dawes, Helen M., Hursthouse, M. B.) 1986. Binuclear platinum diphosphite complexes: X-ray crystal structures of $K_4[Pt_2(pop)_4Cl]\cdot 3H_2O$ and $K_4[Pt_2(pop)_4Br_2]\cdot 2H_2O$ ($pop = P_2O_5H_2^{2-}$). *Inorg. Chem.*, vol. 25, 409–412.

CLARK, R. J. H., KURMOO, M. (and others) 1986. The syntheses, structures, and electronic and resonance Raman spectroscopy of halogen-bridged platinum(II,IV) chain complexes involving equatorially co-ordinated terdentate amines: X-ray crystal structure of $[Pt^{II}(Me\text{-}dien)I][Pt^{IV}(Me\text{-}dien)I_3]I_2$, and spectroscopy of $[Pt^{II}(dien)(NO_2)][Pt^{IV}(dien)(NO_2)Br_2]Br_2$. *J. chem. Soc. Dalton*, 273–278.

CLARK, R. J. H., TOCHER, JOANNE H. (and others) 1986. A vibrational study by Raman spectroscopy of some dinuclear gold ylide complexes. *J. organomet. Chem.*, vol. 303, 437–442.

CLEMENS, A. H., HELSBY, P., RIDD, J. H., AL-OMRAN, FATIMA (with Sandall, J. P. B) 1985. ^{15}N nuclear polarisation in nitration and related reactions. Part 3. Reactions initiated by *ipso*-attack in the nitration of amines. *J. chem. Soc. Perkin II*, 1217–1225.

CLEMENS, A. H., RIDD, J. H, (with Sandall, J. P. B.) 1985. ^{15}N nuclear polarisation in nitration and related reactions. Part 4. Durene and nitrodurene. *J. chem. Soc. Perkin II*, 1227–1231.

COLLINS, R. A., LEGON, A. C., MILLEN, D. J. 1986. Rotational spectrum, inversion spectrum and properties of the van der Waals molecule argon-oxirane. *J. mol. Struct. (Theochem)*, vol. 135, 435–445.

COOKSEY, C. J., COURTNEIDGE, J. L., DAVIES, A. G., GREGORY, P. S. (with Evans, J. C., Rowlands, C. C.) 1986. The generation of azulene radical cations from arylalkynes. *J. chem. Soc. chem. Comm.*, 549–550.

COOKSEY, C. J., GARRATT, P. J. (and others) 1985. Isolation of the phytoalexin medicarpin from leaflets of *Arachis hypogaea* and related species of the tribe Aeschynomeneae. *Z. Naturforsch.*, vol. 40c, 313–316.

CORMACK, A. N., SAUL, P., CATLOW, C. R. A. 1985. The behaviour of protons in oxides. In *Transport in Nonstoichiometric Compounds*, 497–503. G. Simkovich and V. S. Stubican (editors). (New York: Plenum Press).

COURTNEIDGE, J. L., DAVIES, A. G. (with Clark, T., Schötz, K.) 1986. The e.s.r. spectra and spin distributions of benzobarrelene radical cations. *J. chem. Soc. chem. Comm.*, 547–548.

COURTNEIDGE, J. L., DAVIES, A. G., TOLLERFIELD, SUSAN M. (with Rideout, J., Symons, M. C. R.) 1985. The formation of cyclobutadiene radical cations by the cycloaddition of an alkyne and alkyne radical cation. *J. chem. Soc. chem. Comm.*, 1092–1093.

CRICH, D. (with Barton, D. H. R.) 1985. Oxidation of olefins with 2-pyridineseleninic anhydride. *Tetrahedron*, vol. 41, 4359–4364.

CRICH, D. (with Barton, D. H. R., Kretzschmar, G.) 1986. The invention of new radical chain reactions. Part 9. Further radical chemistry of thiohydroxamic esters; formation of carbon–carbon bonds. *J. chem. Soc. Perkin I*, 39–53.

CRICH, D. (with Barton, D. H. R., Löbberding, A., Zard, S. Z.) 1986. On the mechanism of the deoxygenation of secondary alcohols by the reduction of their methyl xanthates by tin hydrides. *Tetrahedron*, vol. 42, 2329–2338.

CRICH, D. (with Barton, D. H. R., Motherwell, W. B.) 1985. The invention of new radical chain reactions. Part VIII. Radical chemistry of thiohydroxamic esters; a new method for the generation of carbon radicals from carboxylic acids. *Tetrahedron*, vol. 41, 3901–3924.

CRICH, D. (with Barton, D. H. R., Potier, P.). 1985. On the mechanism of the decarboxylative rearrangement of thiohydroxamic esters. *Tetrahedron Letters*, vol. 26, 5943–5946.

CRICH, D. (and others) 1985. The free radical chemistry of carboxylic esters of 2-selenopyridine-*N*-oxide; a convenient synthesis of (L)-vinylglycine. *Tetrahedron*, vol. 41, 4347–4357.

DAVIES, A. G., PRICE, A. J. (with Dawes, Helen M., Hursthouse, M. B.) 1986. Structure of 2,2-dibutyl-1,3,2-dioxastannolane in the solid state. *J. chem. Soc. Dalton*, 297–302.

DEEMING, A. J. 1985. Rearrangements, intramolecular exchanges, and isomerizations of organometallic compounds. In *Mechanisms of Inorganic and Organometallic Reactions*, vol. 3, 343–367. M. V. Twigg (editor). (New York: Plenum Press).

DEEMING, A. J., DONOVAN-MTUNZI, SUSAN 1985. Addition of proton and boron trifluoride at terminal and bridging cyano-ligands in dinuclear manganese compounds. *J. chem. Soc. Dalton*, 1609–1612.

DEEMING, A. J., DONOVAN-MTUNZI, SUSAN, HARDCASTLE, K. 1986. Doubly and triply bridged dihapto phenylethynyl triosmium clusters by oxidative addition of phenylethynyl gold compounds. X-ray crystal structure of $[Os_3(C{\equiv}CPh)\{Au(PMe_2Ph)\}(CO)_{10}]$. *J. chem. Soc. Dalton*, 543–545.

DEEMING, A. J., MEAH, N. M. 1986. Complexes of rhodium(III) with 2-pyridinethiol and its conjugate anion as the sole ligands. *Inorg. chim. Acta*, vol. 117, L13–L14.

DEEMING, A. J., MEAH, N. M. (with Dawes, Helen M., Hursthouse, M. B.) 1986. Monodentate pyridine-2-thiol and chelating and bridging pyridine-2-thiolato complexes derived from rhodium(I) and chloro-carbonyl dimer. *J. organomet. Chem.*, vol. 299, C25–C28.

DEEMING, A. J., PROUD, G. P. 1986. Modification of the acid-base properties of hydroxycarbonyl complexes of iridium(III) by substitution of carbon monoxide by a tertiary phosphine ligand. *J. organomet. Chem.*, vol. 301, 385–390.

DEEMING, A. J. (with Arce, A. J., de Sanctis, Ysaura) 1985. Triosmium clusters derived from α,β-unsaturated aldehydes. *J. organomet. Chem.*, vol. 295, 365–369.

EWING, M. B., McGLASHAN, M. L., TRUSLER, J. P. M. 1986. The temperature-jump effect and the theory of the thermal boundary layer for a spherical resonator. Speeds of sound in argon at 273.16 K. *Metrologia*, vol. 22, 93–102.

EWING, M. B., McGLASHAN, M. L., TRUSLER, J. P. M. 1986. The speed of sound in gases. II. Acoustic virial coefficients and perfect-gas heat capacities for 2,2-dimethylpropane obtained using a cylindrical interferometer. *J. chem. Thermodynamics*, vol. 18, 511–517.

GARRATT, P. J. 1986. *Aromaticity*. (New York: John Wiley). 313 pp.

GARRATT, P. J. (Symposium Editor.) 1986. 5th International Symposium on Novel Aromatic Compounds. *Pure Appl. Chem.*, vol. 58, 1–210.

GARRATT, P. J. (with Mellor, J. M.). 1985. Introduction. *Ann. Reports (B) 1984*, 1–2.

GARRATT, P. J. DOECKE, C. W. (with Weber, J. C., Paquette, L. A.) 1986. Intramolecular anionic cyclization route to capped [3]peristylanes. *J. org. Chem.*, vol. 51, 449–452.

GARRATT, P. J., TSOTINIS, A. 1986. Alternative syntheses and Diels-Alder reactions of 2,3-bis(trimethylsilyl)buta-1,3-diene. *Tetrahedron Letters*, vol. 27, 2761–2762.

JACKSON, R. A., MURRAY, A. D., CATLOW, C. R. A. 1985. The calculation of basic defect energies of UO_2. *Physica*, vol. 131B, 136–138.

JACKSON, R. A., MURRAY, A. D., CATLOW, C. R. A. 1985. Theoretical studies of the point defect properties of UO_2. *Ann. Chim. Fr.*, vol. 10, 227–237.

JACKSON, R. A., MURRAY, A. D., CATLOW, C. R. A. (with Harding, J. H.) 1986. The calculation of defect parameters in UO_2. *Phil. Mag. A*, vol. 53, 27–50.

KURMOO, M., CLARK, R. J. H. 1985. Spectroscopic studies on linear-chain semiconductors and related species. Vibrational and resonance Raman spectroscopy of the diphosphite complexes $K_4[Pt_2(pop)_4]\cdot 2H_2O$, $K_4[Pt_2(pop)_4X_2]\cdot 2H_2O$, and $K_4[Pt_2(pop)_4X]\cdot nH_2O$, X = Cl, Br, I. *Inorg. Chem.*, vol. 24, 4420–4425.

LEGON, A. C., MILLEN, D. J. (and others) 1985. The rotational spectrum of the hydrogen-bonded heterodimer $H_2O\cdots HF$ in the frequency range 40–80 GHz. *Chem. Phys. Letters*, vol. 117, 543–549.

LEOUTSAKOS, AGNES, PEARCE, F. L. 1986. The effect of adenosine and its analogues in cyclic AMP changes and histamine secretion from rat peritoneal mast cells stimulated by various ligands. *Biochem. Pharmacol.*, vol. 35, 1373–1397.

LEUNG, K. B. P., PEARCE, F. L. (and others) 1985. Hyperresponsiveness of bronchoalveolar mast cells in sarcoidosis. *Thorax*, vol. 40, 220.

LEUNG, K. B. P., PEARCE, F. L. (and others) 1985. IgE dependent release of leucotriene C_4 and prostaglandin D_2 from human bronchoalveolar cells. *Ibid.*, 716.

LEUNG, K. B. P., PEARCE, F. L. (and others) 1985. The hyperosmolar release of histamine from bronchoalveolar mast cells and its inhibition by sodium cromoglycate. *Ibid.*, 717.

LEUNG, K. B. P., PEARCE, F. L. (and others) 1986. Bronchoalveolar mast cells in sarcoidosis: increased numbers and accentuation of mediator release. *Thorax*, vol. 41, 94–99.

LEUNG, K. B. P., PEARCE, F. L. (and others) 1985. Bronchoalveolar mast cells in extrinsic asthma: a mechanism for the initiation of antigen specific bronchoconstriction. *Brit. med. J.*, vol. 291, 923–926.

LEWIS, G. V. 1985. Interatomic potentials: derivation of parameters for binary oxides and their use in ternary oxides. *Physica*, vol. 131B, 114–118.

LEWIS, G. V., CATLOW, C. R. A. 1986. Defect studies of doped and undoped barium titanate using computer simulation techniques. *J. phys. Chem. Solids*, vol. 47, 89–97.

LEWIS, G. V., CATLOW, C. R. A. (with Casselton, R. E. W.) 1985. PTCR effect in BaTiO. *J. Amer. ceram. Soc.*, vol. 68, 555–558.

LEWIS, G. V., CATLOW, C. R. A., CORMACK, A. N. 1985. Defect structure and migration in Fe_3O_4. *J. phys. Chem. Solids*, vol. 46, 1227–1233.

MACCOLL, A. 1985. An algorithm for estimating the enthalpies of formation of amine molecular ions and immonium fragment ions. *Org. Mass Spectrom.*, vol. 20, 715–718.

MACCOLL, A. (with Bowen, R. D.) 1985. Low-energy, low-temperature mass spectra. Part 3. *n*-Pentyl *n*-alkyl ethers. *J. chem. Soc. Perkin II*, 1101–1103.

MACCOLL, A. MRUZEK, MARGARET N. 1986. Low-energy, low-temperature mass spectra. 5-Alkanals. *Org. Mass Spectrom.*, vol. 21, 251–258.

MARTI, V. P. J., PAUL, V., ROBERTS, B. P. 1986. Electron spin resonance studies of radical addition to methylenecycloalkanes. *J. chem. Soc. Perkin II*, 481–485.

McGUIGAN, C. 1986. A new and rapid synthesis of phospholipids. *J. chem. Soc. chem. Comm.*, 533–534.

MILLEN, D. J. 1985. Determination of stretching force constants of weakly bound dimers from centrifugal distortion constants. *Can. J. Chem.*, vol. 63, 1477–1479.

MILLEN, D. J. 1986. General features of geometries and potential constants of hydrogen bonded dimers. *Int. J. Quantum Chem.*, vol. XXIX, 191–196.

MILLEN, D. J. (with Kisiel, Z., Legon, A. C.) 1986. Vibrational satellites in the $J = 3 \leftarrow 2$ rotational transitions of $D_2O \cdots DF$: confirmation of the form of the potential energy function for the out-of-plane bending mode. *J. mol. Struct.*, vol. 131, 201–213.

MILLEN, D. J. (with Legon, A. C.) 1986. The lengthening of the HF bond on formation of heterodimers B···HF: determination and dependence on the strength of the hydrogen bond. *Proc. roy. Soc. London A*, vol. 404, 89–99.

MILLEN, D. J. 1986. Gas phase spectroscopy and properties of hydrogen bonded dimers: HCN···HF as the spectroscopic prototype. *Chem. Rev.*, vol. 86, 635–657.

MILLEN, D. J., WILLOUGHBY, L. C. (with Legon, A. C.) 1985. Spectroscopic investigations of hydrogen bonding interactions in the gas phase. X. Properties of the hydrogen-bonded heterodimer HCN···HF determined from hyperfine coupling and centrifugal distortion effects in its ground-state rotational spectrum. *Proc. roy. Soc. London A*, vol. 401, 327–347.

MURRAY, A. D., CATLOW, C. R. A. (with Murch, G. E.) 1986. A new hybrid scheme of computer simulation based on HADES and Monte Carlo: application to ionic conductivity in Y^{3+} doped CeO_2. *Solid State Ionics*, vols. 18 & 19, 196–202.

MURRAY, A. D., CATLOW, C. R. A., BEECH, F. (with Drennan, J. D.) 1986. A neutron powder diffraction study of the low- and high-temperature structures of $Bi_{12}PbO_{19}$. *J. Sol. State Chem.*, vol. 62, 290–296.

NJAR, V. C. O., BANTHORPE, D. V. 1985. Synthesis of (+) and (−) [10-^{14}C]-α- and β-pinenes. *J. labelled Compounds and Radiopharmaceuticals*, vol. XXII, 615–621.

PEARCE, F. L. 1986. Intestinal mast cells. In *Gut Defences in Clinical Practice*, 67–82. M. S. Losowsky and R. V. Heatley (editors). (Edinburgh: Churchill Livingstone).

PEARCE, F. L. 1986. Mast cell heterogeneity: an overview. In *Asthma: Clinical Pharmacology and Therapeutic Progress*, 251–264. A. B. Kay (editor). (Oxford: Blackwell Scientific Publications).

PEARCE, F. L. 1985. Calcium and mast cell activation. *Brit. J. clin. Pharmacol.*, vol. 20, 267S–274S.

PEARCE, F. L. 1985. Inhibition of histamine secretion from mast cells by disodium cromoglycate: an enigma still? *Trends pharmacol. Sci.*, vol. 6, 389–390.

PEARCE, F. L. 1986. Cromoglicate and asthma. *Trends pharmacol. Sci.*, vol. 7, 132–134.

PEARCE, F. L. 1986. On the heterogeneity of mast cells. *Pharmacology*, vol. 32, 61–71.

PEARCE, F. L. (with Baird, A. W., Cuthbert, A. W.) 1985. Immediate hypersensitivity reactions in epithelia from rats infected with *Nippostrongylus brasiliensis*. *Brit. J. Pharmacol.*, vol. 85, 787–795.

PEARCE, F. L., BARRETT, KIM E., ENNIS, MADELEINE, LEUNG, K. P. B. (with Befus, A. D., Bienenstock, J.) 1985. Funktionelle Heterogenität der Mastzellen unter besonderer Berücksichtigung des Magen-Darm-Trakts. In *Nahrungsmittelallergie: Anatomie, Physiologie und Immunologie. Diagnostik und Klinik Therapie*, 36–43. K. Feistle (editor). (München-Deisenhofen: Dustri-Verlag).

PEARCE, F. L., SPRINGER, CAROLINE J., VERNON, C. A. (with Banks, Barbara E. C.) 1985. On the immunology of nerve growth factor. *Neuroscience Letters*, vol. 61, 127–130.

PEARCE, F. L., THOMPSON, HELEN L. 1986. Some characteristics of histamine secretion from rat peritoneal mast cells stimulated with nerve growth factor. *J. Physiol.*, vol. 372, 379–393.

RIDD, J. H. (and others) 1986. Evidence for a reversible nitro-nitrito rearrangement following *ipso*-attack in nitration. *J. chem. Soc. chem. Comm.*, 658–659.

SOSA, MARTHA E., TOBE, M. L. 1986. Proton exchange and base-catalysed hydrolysis of some *trans*- and *cis*-dichloro(1,4,8,11-tetra-azacyclotetradecane) complexes of chromium(III), ruthenium(III), and rhodium(III). *J. chem. Soc. Dalton*, 427–432.

STIDDARD, M. H. B. 1985. Thin films of antimony on metallic substrates: crystallite orientation and critical thickness for the occurrence of the amorphous-crystalline phase transition. *J. Mater. Sci. Letters*, vol. 4, 1157–1159.

THIRUNAMACHANDRAN, T. (with Craig, D. P.) 1985. The adiabatic approximation in the ground-state manifold. *Can. J. Chem.*, vol. 63, 1773–1779.

THIRUNAMACHANDRAN, T. 1986. Radiation-molecule and molecule–molecule interactions. A unified viewpoint from quantum electrodynamics. *Acc. chem. Res.*, vol. 19, 10–16.

THIRUNAMACHANDRAN, T. (with Power, E. A.) 1985. The non-additive dispersion energies for *N* molecules: a quantum electrodynamical theory. *Proc. roy. Soc. London A*, vol. 401, 267–279.

THIRUNAMACHANDRAN, T. 1985. Further remarks on the Hamiltonian of quantum optics. *J. optical Soc. Amer. B*, vol. 2, 1100–1105.

THIRUNAMACHANDRAN, T. 1986. Through the looking glass: a quantum-electrodynamical view of optical activity. *Int. Rev. phys. Chem.*, vol. 5, 273–281.

TOBE, M. L., SOSA, MARTHA E. (with Forsellini, E., Parasassi, T., Bombieri, G.) 1986. *cis*-Dichloro(1,4,8,11-tetraazacyclotetradecane)chromium(III) chloride. *Acta Cryst.*, vol. C42, 563–566.

TOBE, M. L. (and others) 1985. Ligand substitution kinetics and equilibria in the systems formed by tetrabromoaurate(III) anion and heterocyclic nitrogen donors. *Inorg. Chem.*, vol. 24, 3409–3413.

TOBE, M. L. 1985. The preparation of trichloro(phenyl 2-pyridylmethyl sulphoxide)gold(III) and the kinetics and equilibria of its formation and subsequent reactions. *J. chem. Soc. Dalton*, 2091–2094.

TOBE, M. L. 1986. Acidic properties of (dimethyl sulfoxide)(1,5-diamino-3-azapentane)platinum(II) perchlorate and kinetics of the displacement of dimethyl sulfoxide from the conjugate base. *Inorg. Chem.*, vol. 25, 1944–1947.

TOCHER, D. A. 1986. Preparation and some properties of two binuclear ruthenium complexes, $Ru_2(RNpyr)_4Cl$, (R = Me, $PhCH_2$). *Inorg. chim. Acta*, vol. 115, 51–54.

TOCHER, D. A. (with Chakravarty, A. R., Cotton, F. A.) 1985. Synthesis, structure, and properties of chlorobis(acetato)bis(6-methyl-2-hydroxypyridinato)diruthenium(II,III), the first Ru_2^{5+} compound with a mixed set of bridging ligands. *Inorg. Chem.*, vol. 24, 2857–2861.

TOCHER, D. A. (with Murray, H. H., Fackler, J. P.) 1985. Characterization of the gold(II) dimer $[Au(CH_2)_2PPh_2]_2(CH_2Cl)Br$: structural evidence suggesting the formation of a carbene intermediate preceding A-frame (bridging methylene) formation. *J. chem. Soc. chem. Comm.*, 1278–1280.

TOCHER, D. A., TOCHER, JOANNE H. 1985. Synthesis and spectroelectrochemical characterisation of a novel rhodium(II) dimer, $Rh_2(PhNpy)_4$. *Inorg. chim. Acta*, vol. 104, L15–L17.

TOCHER, D. A., TOCHER, JOANNE H. (with Chakravarty, A. R., Cotton, F. A.) 1985. Electrochemical studies on three polar diruthenium(II,III) complexes. *Polyhedron*, vol. 4, 1475–1478.

TOCHER, D. A., TOCHER, JOANNE H. 1985. Syntheses, structures and redox properties of tetrakis-(μ-benzamidato)dirhodium(II) complexes. *Inorg. chim. Acta*, vol. 101, 185–196.

TOMLINSON, S. M., CATLOW, C. R. A. (with Harding, J. H.) 1985. Defect clustering in rock-salt structured transition metal oxides. In *Transport in Nonstoichiometric Compounds*, 539–550. G. Simkovich and V. S. Stubican (editors). (New York: Plenum Press).

TRUSLER, J. P. M. 1986. The inversion of second virial coefficients for polyatomic molecules. *Mol. Physics*, vol. 57, 1075–1081.

TRUTER, MARY R. (and others) 1985. Synthesis and crystal structure of a complex between lanthanum nitrate and a bicyclic polyether. *Inorg. chim. Acta*, vol. 110, 215–223.

WALMSLEY, S. H. 1986. Crystals and clusters; quaternions and cosines. *Int. Rev. phys. Chem.*, vol. 5, 185–189.

WALMSLEY, S. H. (with Dissado, L. A.) 1986. The hierarchical mode construct: a dynamical approach to photodimerisation and excimer formation in crystals. *Chem. Phys. Letters*, vol. 126, 547–550.

WILLOUGHBY, L. C. (with Legon, A. C.) 1985. ^{33}S-Nuclear quadrupole coupling in the rotational spectrum of the weakly bound dimer SCO···HF. *J. mol. Struct.*, vol. 131, 159–166.

COMPUTER SCIENCE

CAMPBELL, J. A. (with Helmsley, J., Windsor, D. B.) 1986. *Artificial Intelligence and Management*. (Providence, R.I., USA: The Institute of Management Sciences.) 88 pp.

CAMPBELL, J. A. (with Helmsley, J., Windsor, D. B.) 1986. *Artificial Intelligence and Management: Senior Management Review*. (Providence, R.I., USA: The Institute of Management Sciences.) 31 pp.

CAMPBELL, J. A. (with Shihab, K. I.) 1985. Applications of artificial intelligence in computer performance modelling. In *Proc. Int. Conf. on Modelling and Simulation, Monastir., November 1985*, 175–185.

CAMPBELL, J. A. 1986. Principles of artificial intelligence. In *Artificial Intelligence: Principles and Applications*, 13–29. M. Yazdani (editor). (London: Chapman and Hall).

CAMPBELL, J. A. 1986. On artificial intelligence. *Artificial Intelligence Review*, vol. 1, 3–9.

CLACK, C. D., PEYTON JONES, S. L. 1985. Strictness analysis – a practical approach. In *Functional Programming and Computer Architecture, LNCS 201*, 35–49. J.-P. Jouannaud (editor). (Berlin: Springer Verlag).

COLE, R. H. June 1986. *Computer Communications* (2nd Edition). (London: Macmillan.) 170 pp.

COLE, R. H., LLOYD, P. 1986. OSI Transport Protocol – User Experience. In *Proc. Open Systems '86, March 1986*, 33–44.

PEYTON JONES, S. L. 1985. Yacc in Sasl – an exercise in functional programming. *Software Practice and Experience*, vol. 15, no. 8, 807–820.

PEYTON JONES, S. L. 1986. Using Futurebus in a fifth generation computer architecture. *Microprocessors and Microsystems*. vol. 10, no. 2, 69–76.

PEYTON JONES, S. L. 1986. Parsing distfix operators. *Comm ACM*, vol. 29, no. 2, 118–122.

PEYTON JONES, S. L. (with Hankin, C., Burn, G.) 1986. A safe approach to parallel combinator reduction. In *European Symposium on Programming*, 99–110. B. Robinet and R. Wilhelm (editors). (Berlin: Springer Verlag).

KERAVNOU, E. T. (with Johnson, L.) July 1986. *Competent Expert Systems: a Case Study in Fault Diagnosis*. (London: Kogan-Page). 300 pp.

KERAVNOU, E. T. 1986. Analyzing, representing and interpreting expert strategic knowledge. In *Cybernetics and Systems '86, April 1986*, 743–750. R. Trappl (editor). (Dordrecht: D. Reidel).

KERAVNOU, E. T. 1986. Automated reasoning in fault diagnosis and verification. *Int. J. Systems Research and Information Science*. vol. 1, no. 4, 269–286.

KERAVNOU, E. T. (with Johnson, L.) 1986. A new architecture for expert systems. In *ECAI-86, July 1986*, vol. 2, 135–142.

KILLE, S. E. 1986. Mapping the Global Naming Tree onto a Relational Database. In *2nd International Symposium on Computer Message Systems, Washington, September 1985*, 105–114. R. P. Uhlig (editor). (Amsterdam: North-Holland).

KILLE, S. E., BRINK, D. H. 1985. A model of message flow control. *ACM Computer Communication Review*, vol. 15, no. 5, 40–49.

KIRSTEIN, P. T. 1986. Scientific applications in the context of the ISDN. In *IEE Colloquium on Private Circuit and Circuit Switched Digital Services, February 1986*.

KIRSTEIN, P. T. 1986. Computer based message services. *Computer Communications*. vol. 9, no. 2, 66.

LEUNG, C. H. C. (with Choo, Q. H.) 1985. A knowledge-base for effective software specification and maintenance. In *Proc. 3rd International Workshop on Software Specification and Design, August 1985*, 139–142.

LEUNG, C. H. C. (with Wong, K. S.) 1985. File processing efficiency on the content addressable file store. In *Proc. 11th International Conference on Very Large Databases, August 1985*, 282–291.

LEUNG, C. H. C., MANNOCK, K. L. (with Wong, K. S.) 1985. A flexible simulation system for database machine evaluation. In *Proc. Int. Conf. on Modelling and Simulation, Monastir, November 1985*, 186–195.

LEUNG, C. H. C. (with Hornsby, C.) 1985. The design and implementation of a flexible retrieval language for a Prolog database retrieval system. *ACM Sigplan Notices*, vol. 20, no. 9, 43–51.

LEUNG, C. H. C., WOLFENDEN, K. 1985. Estimating data access patterns via diffusion models. *The Computer Journal*, vol. 28, no. 4, 409–411.

LEUNG, C. H. C., WOLFENDEN, K. 1985. Analysis and optimisation of data currency and consistency in replicated distributed database. *The Computer Journal*, vol. 28, no. 5, 518–523.

LEUNG, C. H. C. 1986. Dynamic storage fragmentation and file deterioration. *IEEE Trans. on Software Engineering*, SE-12, 436–441.

MANNOCK, K. L., LEUNG, C. H. C. 1985. An expert system for efficient office object management. In *Proc. Expert Systems '85, Coventry*, 241–258.

OTTO, G. P. 1986. Counting and Labelling objects on CLIP4. In *Cellular Logic Image Processing*, 41–68. M. J. B. Duff and T. J. Fountain (editors). (London: Academic Press).

TUCK, W. 1986. Videotex and database management systems. *Aslib Proceedings*, vol. 38(3), 85–92.

TUCK, W. 1986. Electronic mail: the evolution towards standards. *Vine*, 62, 19–31.

TUCK, W. 1986. ISDN and information services. *Aslib Netlink*, 2, 2–7.
WILBUR, S. R. April 1986. Local area network management for distributed applications. *Computer Communications*, vol. 9, no. 2. 100–104.
WILBUR, S. R., POWER, J. 1985. Proposed authentication standards and workstation based systems. In *Proc. IFIP/SEC '85, August 1985.*
WILBUR, S. R., POWER, J. August 1985. Authentication in a heterogeneous environment. In *Computer Security: The Practical Issues in a Troubled World*, 117–127. J. B. Grimson and H-J. Kugler (editors). (Amsterdam: Elsevier Science Publishers).

GENETICS AND BIOMETRY

BALL, S. P., ROBSON, E. B. (with Sherman, S. L.) 1985. A genetic map of chromosome 19 based on 2-point lod tables. *Cytogenet. Cell Genet.*, vol. 40, 742.
BARTON, N. H. (with Hewitt, G. M.) 1985. Analysis of hybrid zones. *Ann. Rev. Ecol. Syst.*, vol. 16, 113–148.
BARTON, N. H. (with Post, R.) 1986. Sibling competition and the advantage of mixed families. *J. Theor. Biol.*, vol. 120, 381–387.
BARTON, N. H. (with Slatkin, M.) 1986. A quasi-equilibrium theory of the distribution of rare alleles in a subdivided population. *Heredity*, vol. 56, 409–415.
BARTON, N. H. 1986. The maintenance of polygenic variability by a mutation – selection balance. *Genetical Research*, vol. 47, 209–216.
BARTON, N. H. (with Nagylaki, T.) 1986. Intrachromosomal gene conversion, linkage, and the evolution of multigene families. *Theor. Pop. Biol.*, vol. 29, 407–437.
CARRITT, B. (and others). 1983. Isolation of a polymorphic DNA segment unique to human chromosome 7 by molecular cloning of hybrid cell DNA. *Mol. Gen. Genet.*, vol. 190, 143–149.
CARRITT, B. 1985. Genomic cloning of the short arm of human chromosome 1. *Cytogenet. Cell Genet.*, vol. 40, 599.
CARRITT, B., WELCH, H. M. 1985. RFLPs in a repetitive sequence family on chromosome 22 (D22Z1). *Ibid.*, 599.
CARRITT, B., WELCH, H. M., PARRY-JONES, N. 1985. The D1S1 locus is part of a small dispersed sequence family (DNF15). *Ibid.*, 599–600.
COOKE, H. M. G., PENKETH, R. J. A., DELHANTY, J. D. A., LUCAS, M. K. 1985. The extent of maternal cell contamination in cultured chorionic villus samples. *Clin. Gen.*, vol. 28, no. 5, 421–422.
DAVIS, M. B. (with Malcolm, S., Rabbitts, T. H.) 1985. Breakage on chromosome 2 brings the CK gene to a region 3′ of c-myc in a Burkitt's lymphoma line carrying a (2,8) translocation. *Cytogenet. Cell Genet.*, vol. 39, 168–172.
DAVIS, M. B., WEST, L. F. (with Phillips, L. R., Shephard, E. A.) 1986. Regional localisation of a human cytochrome P-450, *CYP1* to chromosome 19q13.1–13.3. *Ann. Hum. Genet.*, vol. 50, 237–240.
DEOL, M. S. 1986. Animal Models for Genetic Disorders in Man. In *Advances in the Biosciences, Recent Trends in Medical Genetics*, vol. 56, 269–272.
DEOL, M. S., TRUSLOVE, G. M., McLAREN, A. 1986. Genetic activity at the albino locus in Cattanach's insertion in the mouse. *J. Embryol. exp. Morph.*, vol. 96, 295–302.
EDWARDS, Y. H., LLOYD, J. C., McMILLAN, S. L. (with Benham, F. J.) 1985. Human glyceraldehyde-3-phosphate dehydrogenase: mRNA sequence and derived amino acid sequence. *Biochem. Soc. Trans.*, vol. 14, 103–104.

EDWARDS, Y. H., LLOYD, J. C., McMILLAN, S. L. (with Benham, F. J.) 1985. Human glyceraldehyde-3-phosphate dehydrogenase: mRNA levels and enzyme activity in developing muscle. *Molec. & Cell Biol.*, vol. 5, 2147–2149.

EDWARDS, Y. H., LLOYD, J. C., PARKAR, M. POVEY, S. 1985. Human muscle specific carbonic anhydrase, *CA3* is on chromosome 8. *Cytogenet. Cell Genet.*, vol. 40, 621.

EDWARDS, Y. H., McMILLAN, S. L., KIELTY, C. SHAW, M-A. 1985. The expression of human glycerol-3-phosphate dehydrogenase in human/rodent somatic-cell hybrids. *Biochem. Genet.*, vol. 23, 405–422.

GARDNER, A. S. (with Duck, C. D., Grieg, S.) 1985. Breeding of the Trindade Petrel *Pterodroma arminjoniana* on Round Island Mauritius. *Ibis*, vol. 127, 517–522.

GARDNER, A. S. 1985. An identification key to the geckos of the Seychelles, with brief notes on their distributions and habits. *Herpetological Journal*, vol. 1, 17–19.

GARDNER, A. S. 1985. The calcium cycle of female day geckos. *Ibid.*, 37–39.

GARDNER, A. S. 1986. The biogeography of the lizards of the Seychelles. *J. of Biogeography*, vol. 13, 237–253.

GARDNER, A. S. 1986. The Herpetology of the Seychelles. *Bull. of the British Herpetological Soc.*, vol. 16, 25–27.

GRIFFITHS, B., SWALLOW, D., POVEY, S. (and others). 1985. Immunochemical characterization of lactase in subcellular fractions of human jejunal enterocytes. *Biochem. Soc. Trans.*, vol. 13, 97–98.

JEREMIAH, S. J., CORNEY, G. (and others). 1985. Adult polycystic kidney disease is linked to the alpha-globin and phosphoglycolate phosphatase loci on chromosome 16. *Cytogenet. Cell Genet.*, vol. 40, 729.

JONES, J. S. (with Cowie, R. H.) 1985. Climatic selection of body colour in *Cepaea*. *Heredity*, vol. 55, 261–267.

JONES, J. S., ROUHANI, S. 1986. Human evolution: How small was the bottleneck? *Nature*, vol. 319, 449–450.

KELSEY, G., POVEY, S. (with Shephard, E. A., Phillips, I. R., Cowell, J.) 1985. A cytochrome P-450 gene family on human chromosome 19. *Cytogenet. Cell Genet*, vol. 40, 741–742.

LUSH, I. E. 1986. The genetics of tasting in mice IV. The acetates of rattinose, galactose and β-lactose. *Genetical Research*, vol. 47, 117–123.

MAHADEVAIAH, S., MITTWOCH, U. (with Burgoyne, P. S.) 1985. A reciprocal autosomal translocation which causes male sterility in the mouse also impairs oogenesis. *J. Reprod. Fert.*, vol. 75, 647–652.

MAHADEVAIAH, S., MITTWOCH, U. 1986. Synaptonemal complex analysis in spermatocytes and oocytes of tertiary trisomic Ts(5^{12})31H mice with male sterility. *Cytogenet. Cell Genet.*, vol. 41, 169–176.

MITTWOCH, U. 1985. Lateralization and sex. *Behav. Brain. Sci.*, vol. 8, 644.

MITTWOCH, U. 1986. Males, females and hermaphrodites. *Ann. Hum. Genet.*, vol. 50, 103–121.

PARKAR, M. (and others). 1985. Chromosome mapping of cell membrane antigens expressed on activated B cells. *Eur. J. Immunol.*, vol. 15, 103–106.

PARRINGTON, J. M., WEST, L. F., POVEY, S. 1985. Chromosome changes in germ cell tumours. In *Advances in the Biosciences*, vol. 55, *Germ Cell Tumours II*, 61–67. W. G. Jones, A. Milford West and C. K. Anderson (editors). (London: Pergamon Press).

PARRINGTON, J. M., WEST, L. F. 1985. Loss of chromosome and enzyme markers in cultures from testicular tumours. *Clin. Genet.*, vol. 27, 326.

PARRINGTON, J. M., WEST, L. F., POVEY, S. 1985. Loss of chromosome and enzyme markers in cultures from testicular tumours. *Heredity*, vol. 54, 419–420.

PENKETH, R. J. A., CORNEY, G. (and others). 1985. The vanishing twin: a possible cause for misdiagnosis in the first trimester of pregnancy. *Clin. Gen.*, vol. 28(5), 420–421.

POVEY, S. (and others). 1984. Assignment of tissue-type plasminogen activator to chromosome 8 in man and identification of a common restriction length polymorphism within the gene. *Mol. Biol. Med.*, vol. 2, 251–259.

POVEY, S. (and others) 1985. Characteristics of four new human cell lines derived from squamous cell carcinomas of the head and neck. J. National Cancer Institute, vol. 75, 621–635.

POVEY, S. (and others). 1985. Tissue-type plasminogen activator (PLAT) maps to chromosome 8 and there is a common restriction fragment length polymorphism within the gene. *Cytogenet. Cell Genet.*, vol. 50, 581.

POVEY, S., DAVIS, M. B., KELSEY, G., MONTEIRO, M., WEST, L. F. (with Phillips, I. R., Shephard, E. A., Cowell, J.) 1985. A cytochrome P-450 gene family mapped to human chromosome 19. *Ann. Hum. Genet.*, vol. 49, 267–274.

POVEY, S., EDWARDS, Y. H. (with Butterworth, P., Barlow, J., Konialis, C.) 1985. The assignment of human erythrocyte carbonic anhydrase *CA1* to chromosome 8. *Cytogenet. Cell Genet.*, vol. 40, 597.

POVEY, S. (with Morton, N. E. Sherman, S. L.) 1985. Report of the committee on the genetic constitution of chromosomes 1 and 2. *Cytogenet. Cell Genet.*, vol. 40, 67–106.

RIDER, S. H., DAVIS, M. B., DELHANTY, J. D. A. 1985. Molecular genetic changes in colo-rectal cancer. *Clin. Gen.*, vol. 28(5) 459.

RIDER, S. H., MAZZULLO, H. A., DAVIS, M. B., DELHANTY, J. D. A. 1986. Familial polyposis coli: growth characteristics of karyotypically variable cultured fibroblasts, response to epidermal growth factor and the tumour promoter 12-0-tetradecanoyl phorbol-13-acetate. *J. Med. Genet.*, vol. 23, 131–144.

ROBSON, E. B. 1986. Fifty years of human genetics: 'plus ca change, plus c'est la meme chose'. *Ann. Hum. Genet.*, vol. 50, 1–2.

ROBSON, E. B., SMITH, C. A. B. (Editors.) *Annals of Human Genetics*, Cambridge University Press.

SETTERFIELD, L. A., MITTWOCH, U. 1986. Reduced oocyte numbers in tertiary trisomic mice with male sterility. *Cytogenet. Cell Genet.*, vol. 41, 177–180.

SHAW, M-A., WHITEHOUSE, D. B., MONTEIRO, M. (with Hilden, J-O. Tippet, P.) 1985. Linkage information from nine more Radin Families. *Cytogenet. Cell Genet.*, vol. 40, 650–651.

SMITH, C. A. B. 1986. Chi-squared tests with small numbers. *Ann. Hum. Genet.*, vol. 50, 163–167.

SMITH, C. A. B. 1985. Recurring decimals. *Colson News*, vol. 2, 61–62.

SMITH, C. A. B. 1985. The false coin problem. *Ibid.*, 66.

SMITH, C. A. B. 1985. Unquestioned assumptions. *Ibid.*, 67–71.

SMITH, C. A. B. 1986. The fake coin problem. *Colson News*, vol. 3, 2–12.

SMITH, C. A. B. 1986. The Calendar. *Ibid.*, 13–19.

SWALLOW, D. (and others). 1985. Preparation of monoclonal antibodies to lactase and other microvillar membrane proteins by immunizations *in vivo* and *in vitro*. *Biochem. Soc. Trans.*, vol. 13, 98–99.

SWALLOW, D., GRIFFITHS, B. (and others). 1985. Human lactase and the molecular basis of lactase persistence. *Biochem. Genet.*, vol. 23, 423–439.

SWALLOW, D. M., POVEY, S. (with Goodfellow, P. N., Andrews, P., Harris, H.) 1985. The liver/bone/kidney isozyme of alkaline phosphatase (ALPL) is coded by a gene on chromosome 1. *Cytogenet. Cell Genet.*, vol. 40, 756.

WHITEHOUSE, D. B., HOPKINSON, D. A. (with Hill. A. V. S., Bowden, D. K.) 1985. Analysis of genetic variation in two human thyroxine-binding plasma proteins by immunodetection after isoelectric focusing. *Ann. Hum. Genet.*, vol. 49, 259–265.

WOLFE, J. (Goodfellow, P. N., Darling, S. M.) 1985. The Human Y Chromosome. *J. Med. Genet.*, vol. 22, 329–344.

WOLFE, J. (and others) 1985. Localisation of Y chromosomal sequences in normal and XX males. *Cytogenet. Cell Genet.*, vol. 40, 593.

WOLFE, J. (and others) 1985. Genetics of the *MIC2* loci. *Ibid.*, 644

WOLFE, J. (and others) 1985. Y chromosome specific organisation of alphoid repeated sequence DNA. *Ibid.*, 781.

WOLFE, J. (and others). 1986. Cloning an expressed gene shared by the human sex chromosomes. *PNAS*, vol. 83, 135–139.

GEOLOGICAL SCIENCES

ADDIS, M. A., JONES, M. E. 1985. Volume changes during diagenesis. *Marine and Petroleum Geology*, vol. 2, 241–246.

AUDLEY-CHARLES, M. G. 1985. The Sumba enigma: Is Sumba a diapiric forearc nappe in process of formation? *Tectonophysics*, vol. 119, 435–449.

AUDLEY-CHARLES, M. G. 1986. Rates of Neogene and Quaternary tectonic movements in the Banda Arc based on micropalaeontology. *J. geol. Soc. Lond.*, vol. 143, 161–175.

BANNER, F. T. 1985. Foreword to G. Bignot. *Elements of Micropalaeontology*. (London: Graham & Trotman.) 217 pp.

BANNER, F. T. 1986. Environmental effect of dredging and construction. In *Tropical Marine Environments*, Chapter 9. A. J. Phillips (editor). (Open University Press).

BANNER, F. T., DESAI, DAMINI (with Pereira, C. P. G.) 1986. Independent evolution of floatation structures in 'benthonic' rotaline foraminifera. *Terra Cognita*, vol. 6, part 1, 30.

BOWN, P. R. (with Young, J. R., Teale, C. T.) 1986. Revision of the stratigraphy of the Longobucco Group (Lower Jurassic, southern Italy); based on new data from nannofossils and ammonites. *Eclogae Geol. Helv. Basle*, vol. 79, 117–135.

DENNIS, P. F., MEREDITH, P. G., PRICE, G. D. 1985. Rock and mineral physics at University College London, EOS. *Trans. Amer. Geophys. Union.*, vol. 66, 1196–1198.

DONOVAN, D. T. 1986. Records, catalogues and layers at Gough's Cave. *Proc. Univ. Bristol Spelaeol. Soc.*, vol. 17, 116–119.

GREENSMITH, J. T. (with Hill, C. R., Moore, D. T., Williams, R.) 1985. Palaeobotany and petrology of a Middle Jurassic ironstone bed at Wrack Hills, North Yorkshire. *Proc. Yorks. Geol. Soc.*, vol. 45, 277–292.

JONES, E. J. W. (with Hughes, V. J. and others). 1983. A wide angle seismic profile. In *Seismic Expression of Structural Styles*, 1506–1511. A. W. Bally (editor). (Tulsa: American Association of Petroleum Geologists).

JONES, G. P. (with Downing, R. A.) 1985. Editors, *Hydrogeology in the Service of Man*. (Wallingford: International Association of Hydrological Sciences), Publication No. 154, Vol. 1, 301 pp., Vol. 2, 216 pp., Vol. 3, 207 pp., Vol. 4, 243 pp.

JONES, G. P. (with Downing, R. A.) 1985. Hydrogeology – some essential facets. *Ibid.*, Part 1, 1–16.

JONES, M. E. 1985. Deformation mechanisms in the Chalk. *Proc. Chalk Research Symposium, Stavanger, May 1985*, Book 2, Paper 3, 60 pp.

JONES, M. E., ADDIS, M. A. 1986. Mechanical behaviour of chalks and shales. Course notes for the seminar Application of Rock Mechanics to Hydrocarbon Reservoir Problems. *Norwegian Society of Chartered Engineers, Stavanger, June 1986*, 44 pp.

JONES, M. E., ADDIS, M. A. 1985. On changes in porosity and volume during sediment burial. *Marine and Petroleum Geology*, vol. 2, 247–253.

JONES, M. E., ADDIS, M. A. 1986. The application of stress path and critical state analysis to sediment deformation. *J. Struct. Geology*, vol. 8, 575–580.

JONES, M. E. (with Allison, R.) 1985. A report on further work on the coastal geomorphology of the Isle of Purbeck. *Proc. Dorset Nat. Hist. and Arc. Soc.*, vol. 106 for 1984, 170.

McARTHUR, J. M. (with others). 1986. Stable isotopic characterisation of francolite formation. *Earth Planet. Sci. Letters*, vol. 77, 20–34

MASON, R. 1985. Ophiolites. *Geology Today*, vol. 1, 136–140.

MASON, R. (with Boyle, A. P., Hansen, T. S.) 1985. A new tectonic perspective on the Sulitjelma Region. In *The Caldeonide Orogen – Scandinavia and Related Areas*, 529–542. D. G. Gee and B. A. Sturt (editors). (New York: John Wiley).

MEREDITH, P. G., ATKINSON, B. K. 1985. Fracture toughness and subcritical crack growth during high-temperature tensile deformation of Westerly granite and Black Gabbro. *Phys. Earth and Planetary Interiors*, vol. 39, 33–51.

MILSOM, J., AUDLEY-CHARLES, M. G. 1986. Post-collision isostatic readjustment in the southern Banda Arc. In *Collision Tectonics*, 353–364. M. P. Coward and A. C. Ries (editors). *Spec. Pub. Geol. Soc. Lond.*, No. 19.

MOUTZOURIDES, S. G. 1985. Fossil and Recent molluscs as current indicators. *La Conchiglia*, vol. 17, Issue 194–195, 19, 22.

MURRELL, S. A. F. 1986. Mechanics of tectogenesis in plate collision zones. In *Collision Tectonics*, 95–111. M. P. Coward and A. C. Ries (editors). *Spec. Pub. Geol. Soc. Lond.*, No. 19.

MURRELL, S. A. F., HONG, MINXUAN (with Bond, L. J.) 1986. Computer modelling of seismic wave propagation and interaction with discontinuities in rock masses. *Proc. 27th U.S. Symposium on Rock Mechanics.*

MURRELL, S. A. F. (with Fonseka, G. M., Barnes, P.) 1985. Scanning electron microscope and acoustic emission studies of crack development in rocks. *Int. J. Rock. Mech. Min. Sci. and Geomech. Abstr.*, vol. 22, 273–289.

MURRELL, S. A. F. (with others) 1986. Non-simultaneous failure and ice loads on large structures. *Proc. 1986 Offshore Technology Conference, Houston, U.S.A.* 399–404.

PRICE, G. D. 1986. Perovskite and plate tectonics. *Nature*, vol. 319, 175.

PRICE, G. D. (with Cormack, A. N.) 1985. Vacancy ordering in maghemite. In *Reactivity of Solids*. L. C. Dufour (editor). *Material Science Monograph Series*. (Amsterdam: Elsevier).

PRICE, G. D. (with Parker, S. C.) 1985. A study of the structures and energetics of magnesium silicates. *Physica*, vol. B131, 290–299.

PRICE, G. D. (with Parker, S. C., Yeomans, J.) 1985. The energetics of polytypic structures: a computer simulation of Mg_2SiO_4 spinelloids. *Acta Cryst.*, vol. B41, 231–239.

PRICE, G. D. (with Angel, R. C., Yeomans, J.) 1985. The energetics of polytypic structures: further applications of the ANNNI model. *Ibid.*, 310–319.

PRICE, G. D. (with Yeomans, J.) 1986. The factors determining the stability of polysomatic series. *Min. Mag.*, vol. 50, 149–156.

PRICE, G. D. (with Yeomans, J). 1986. The factors determining the stability of polytypes. *Bull. Min.*, vol. 109, 3–13.

PRICE, G. D. (with Catlow, C. R. A. and others). 1985. Computer simulations of silicates. In *Kinetics and mass transport in silicates and oxides. Materials Science Forum*, vol. 7, 163–176. R. Freer and P. Dennis (editors). (Trans. Tech. Publications).

ROBINSON, J. E. 1985. *London – Illustrated Geological Walks, Book Two.* (Edinburgh: Scottish Academic Press).

ROBINSON, J. E. 1985. And I saw a new Heaven. *The U.C.L. Bulletin*, vol. 6, No. 8, 5–7.

ROBINSON, J. E. 1986. Confirmation of an interglacial age for the Condat Tufa (Dordogne, France) from biostratigraphic and isotopic data. *J. Quaternary Studies*, vol. 1, part 1.

ROBINSON, J. E. 1986. Ostracods from Meare East. *Somerset Levels Papers*, No. 12, 103–105.

ROBINSON, J. E. (with Holyoak, D. T., Preece, R. C.) 1985. Late Pleistocene Interglacial deposits at Tattershall, Lincolnshire. *Phil. Trans. Roy. Soc.*, vol. B311, 213–220.

ROBINSON, J. E. (with Straker, V., Robinson, M.) 1985. Biological investigations of waterlogged deposits in the Roman fortress ditch at Exeter. *Proc. Devon Arch, Soc.*, vol. 42, 59–69.

STARMER, I. C. 1985. The Proterozoic evolution of South Norway as revealed by the major and mega-tectonics of the Kongsberg and Bamble Sectors. In *The Deep Proterozoic Crust in the North Atlantic Provinces.* Tobi and Touret (editors), *Proc. NATO Advanced Study Institute, July 1984*, 259–290.

STARMER, I. C. 1985. Geological Map of the Bamble Sector, South Norway (5,000 km^2, 1:100,000): 3 sheets. *NATO Advanced Study Institute, 1984, Excursion Guide. Norges Geologiske Undersokelse 1986.*

STARMER, I. C. 1985. The geology of the Kongsberg district and the evolution of the entire Kongsberg Sector, South Norway. *Norges Geol. Unders. Bull.*, vol. 401, 35–38.

HISTORY AND PHILOSOPHY OF SCIENCE

MAXWELL, N. 1986. The Fate of the Enlightenment. *Inquiry*, vol. 29, 79–92.

RATTANSI, P. M. 1985. Art and Science: The Paracelsian Vision. In *Science and the Arts in the Renaissance*, 50–58. F. D. Hoeniger and J. Shirley (editors). (Associated University Presses, Cranbury N. J. for the Folger Shakespeare Library, 1985).

SMEATON, W. A. 1986. Carl Wilhelm Scheele (1742–1786). *Endeavour*, vol. 10, 28–30.

ANDERSON, J. M. 1985. Bloch functions: the basic theory. In *Operators and Function Theory*, 1–17. S. C. Power (editor). (Dordrecht: Reidel).

ANDERSON, J. M. 1985. The Fredholm eigenvalue problem for plane domains. *Complex Variables*, vol. 5, 95–100.

ANDERSON, J. M. (with Rosenblum, M., and Rovnyak, J.) 1985. Hilbert space extremal problems with constraints. *J. London Math. Soc.* (2), vol. 31, 517–525.

ANDERSON, J. M. (with Clunie, J.) 1985. Characterizing sets in L^p-spaces. *Complex Variables*, vol. 3, 33–44.

BROWN, S. N. 1985. Marginal separation of a three-dimensional boundary layer on a line of symmetry. *J. Fluid Mech.*, vol. 158, 95–111.

BURTON, G. R. 1985. Semilinear elliptic equations on unbounded domains. *Math. Zeit.*, vol. 190, 519–525.

COHN, P. M. 1985. *Free Rings and Their Relations* (2nd edition). *London Math. Soc. Monographs*, no. 19 (London and Orlando: Academic Press.) 588 pp.

COHN, P. M. 1985. Principles of non-commutative algebraic geometry. In *Rings and Geometry*, 3–37. R. Kaya *et al.* (editors). Istanbul, 1984. (Dordrecht: Reidel).

DICKS, W. 1985. On the cohomology of one-relator associative algebras. *J. Algebra*, vol. 97, 79–100.

DICKS, W. 1985. Automorphisms of the free algebra of rank two. *Contemporary Maths.*, vol. 43, 63–68.

FRIEDLANDER, F. G. 1986. On the wave equation in plane regions with polygonal boundary. In *Advances in Microlocal Analysis*, 135–150. H. G. Garnir (editor). (Dordrecht: Reidel).

GROSSMAN, S. I. 1986. *Applied Mathematical Analysis*. (Belmont: Wadsworth.) 773 pp.

GROSSMAN, S. I. 1986. *Calculus of One Variable*. (San Diego: Academic.) 756 pp.

GROSSMAN, S. I. 1986. *Multivariable Calculus, Linear Algebra and Differential Equations*. (San Diego: Academic.) 1012 pp

HOCKING, L. M. 1985. The decay of transients in a contained stratified fluid. *J. Fluid Mech.*, vol. 159, 289–301.

JAYNE, J. E. (with Hansell, R. W., and Talagrand, M.) 1985. First class selectors for weakly upper semi-continuous multi-valued maps in Banach spaces. *J. reine u. angew. Math.*, vol. 361, 201–220.

JAYNE, J. E., ROGERS, C. A. 1985. Borel selectors for upper semi-continuous set-valued maps. *Acta Math.*, vol. 155, 41–79.

JAYNE, J. E., ROGERS, C. A. 1985. Borel selectors for upper semi-continuous multi-valued functions. *Mathematika*, vol. 32, 324–337.

JAYNE, J. E., ROGERS, C. A. 1985. Borel selectors for upper semi-continuous set-valued maps: correction. *Acta Math.*, vol. 155, 149–152.

JAYNE, J. E., ROGERS, C. A. (with Hansell, R. W.) 1985. Piece-wise closed functions and almost discretely σ-decomposable families. *Mathematika*, vol. 32, 229–247.

JOHNSON, F. E. A. 1985. On groups which act freely on $R^m \times S^n$. *J. London Math. Soc.* (2), vol. 32, 370–376.

McMULLEN, P. (with Betke, U.) 1985. Lattice points in lattice polytopes. *Monatsh. Math.*, vol. 99, 253–265.

MICHAEL, D. H. (with Collins, R., and Dover, W. D.) 1985. The use of A.C. field measurements for nondestructive testing. In *Research Techniques in Nondestructive Testing*, 211–267. R. S. Sharpe (editor). (London: Academic Press).

MICHAEL, D. H. (with Collins, R., Mirshekar-Syahkal, D., and Pinsent, H. G.) 1985. Surface electromagnetic fields around surface flaws in metals. *J. Nondestructive Evaluation*, vol. 5, 81–93.

MICHAEL, D. H., TOUFIC, F., WILLIAMS, P. G. (with Collins, R.) 1985. Surface distributions for eddy current probes. In *Review of Progress in Quantitative Nondestructive Evaluation*, vol. 5A, 259–269. D. O. Thompson and D. E. Chimenti (editors). (New York: Plenum).

O'NEILL, M. E. 1984. On the settling of a torus in a circular tube. *J. Math. Phys. Sci.* vol. 18, 541–553.

O'NEILL, M. E. (with Chorlton, F.) 1986. *Ideal and Incompressible Fluid Dynamics* (London: Wiley.) 376 pp.

O'NEILL, M. E. (with Brenner, H. and Ranger, K. B.) 1986. Slip at the surface of a translating-rotating surface bounding a semi-infinite viscous fluid. Removal of the contact-line singularity. *Phys. Fluids.*, vol. 29, 913–924.

O'NEILL, M. E. (with Hackborn, W. and Ranger, K. B.) 1985. The structure of an asymmetric Stokes flow. *Quart. J. Mech. Appl. Math.*, vol. 39, 1–14.

O'NEILL, M. E. (with Kunesh, J. G., Brenner, H., and Ranger, K. B.) 1985. Torque measurements on a stationary axially positioned sphere partially and fully submerged beneath the free surface of a slowly rotating viscous fluid. *J. Fluid Mech.*, vol. 154, 29–42.

POWER, E. A. (with Persico, F.) 1986. Magnetic field energy in the vicinity of atoms and molecules in their ground state. *Phys. Letts.* vol. 114A, 309–312.

POWER, E. A. (with Thirunamachandran, T.) 1985. Further remarks on the Hamiltonian of quantum optics. *J. Optical Soc. Amer.*, vol. B2, 1100–1106.

POWER, E. A. (with Thirunamachandran, T.) 1985. The non-additive dispersion energies for N molecules: a quantum electrodynamical theory. *Proc. Royal Soc. London, A*, vol. 401, 267–279.

POWER, E. A. (with Thirunamachandran, T.) 1986. Through the looking glass: a quantum-electrodynamical view of optical activity. *Int. Rev. Phys. Chem.*, vol. 5, 273–281.

ROGERS, C. A. 1986. Probability measures on compact sets. *Proc. London Math. Soc.* (3), vol. 52, 328–348.

SEYMOUR, R. M. 1985. Whitehead theorems in pro-homotopy theory. *J. London Math. Soc.* (2), vol. 32, 337–356.

SMITH, F. T. 1986. Steady and unsteady boundary–layer separation. *Ann. Rev. Fluid. Mech.*, vol. 18, 197–220.

SMITH, F. T. (with Bodonyi, R. J. and Kluwick, A.) 1985. Axisymmetric flow past a slender body of finite length. *Proc. Royal Soc. London A*, vol. 400, 37–54.

SMITH, F. T. (with Elliott, J. W.) 1985. On the abrupt turbulent reattachment downsteam of leading-edge laminar separation. *Proc. Royal Soc. London, A*, vol. 401, 1–27.

SMITH, F. T. (with Elliott, J. W.) 1986. Separated supersonic flow past a trailing edge at incidence. *Computers and Fluids*, vol. 14, 109–116.

SMITH, F. T. (with Rothmayer, A. P.) 1985. Large-scale separation and hysterisis in cascades. *Proc. Royal Soc. London, A*, vol. 402, 83–108.

STEWARTSON, K. (with Capel, K.) 1985. On the stability of ring modes in a trailing line vortex: the upper neutral points. *J. Fluid Mech.*, vol. 156, 369–386.

STEWARTSON, K., BROWN, S. N. 1985. Near neutral centre-modes as inviscid perturbations to a trailing line vortex. *J. Fluid Mech.*, vol. 156, 387–399.

PHYSICS AND ASTRONOMY

ALLINGTON-SMITH, J. R., SCHWARZ, H. E. 1986. Compact imaging photon detectors. *IEEE Trans. Nucl. Sci.*, vol. 1, no. 33, 293–294.

BARTLEY, J. H., BULLOCK, F. W., CRANFIELD, F., DUFF, B. G., ESTEN, M. J., HEYMANN, F. F., HOBSON, P. R., IMRIE, D. C., LUSH, G. J. (and others) 1986. A measurement of the total charm cross section in 200 and 350 GeV/c ρN interactions using a holographic bubble chamber. *Phys. Scr.*, vol. 33, 202–206.

BARTLEY, J. H., BULLOCK, F. W., FITCH, P. J. LEIGHTON-DAVIS, S., SANSUM, R. A. (and others) 1985. Dilepton and trilepton production by antineutrinos and neutrinos in neon. *Z. Phys. C.*, vol. 29, 15–28.

BARTLEY, J. H., COOK, G. S., DAVIS, D. H., DUFF, B. G., ESTEN, M. J., HEYMANN, F. F., IMRIE, D. C., LUSH, G. J., TOVEE, D. N. (and others) 1985. Direct observation of the decay of beauty particles into charm particles. *Phys. Lett. B*, vol. 158, 186–192.

BELING, C. D. (with Smith, F. A., Pickard, M.) 1986. The use of positron lifetime measurements in a study of electron scavenging by a range of radiosensitizer compounds. *Chem. Phys.*, vol. 101, 165–173.

BENTLEY, R. D. (with Doyle, J. G.) 1986. Broadening of soft-X-ray lines during the impulsive phase of solar flares: Random or directed mass motions? *Astron. Astrophys.*, vol. 155, 278–282.

BENTLEY, R. D. (and others) 1985. The X-ray signature of solar coronal mass ejections. *Solar Phys.*, vol. 97, 387–400.

BENTLEY, R. D., LEMEN, J. R., CULHANE, J. L. (with Phillips, K. J. H.) 1986. Soft X-ray observations of high-velocity features in the 29 June 1980 flares. *Astron. Astrophys.*, vol. 154, 255–262.

BRANDUARDI-RAYMONT, G. CULHANE, J. L. (and others) 1985. EXOSAT observations of a strong soft X-ray excess in Mkn 841. *Mon. Not. R. astr. Soc.*, vol. 217, 105–113.

BRANDUARDI-RAYMONT, G. MASON, K. O. (with Murdin, P. G., Martin C.) 1985. Serendipitous EXOSAT sources in the region of the Coma Cluster: AGN with steep X-ray spectra. *Mon. Not. R. astr. Soc.*, vol. 216, 1043–1055.

BRANDUARDI-RAYMONT, G., MASON, K. O. (with Murdin, P. G., Martin C., McKechnie, S. P.) 1985. Optical observations of serendipitous EXOSAT sources in the Coma cluster. *Space Sci. Rev.*, vol. 40, 647.

CARNOCHAN, D. J. 1986. The variation of interstellar extinction in the ultraviolet. *Mon. Not. R. astr. Soc.*, vol. 219, 903–926.

CASTILLEJO, L. (and others) 1985. A modified skyrmion. *Phys. Lett.*, B, vol. 154, 101–106.

CHARLTON, M. 1985. Atomic physics with positrons and positronium. *Comments. in At. Mol. Phys.*, vol. 16, 133–141.

CHARLTON, M. 1985. A determination of positron mobilities in low density gases. *J. Phys.*, B, vol. 18, L667–L671.

CHARLTON, M. LARICCHIA, G. 1985. Positronium formation and positron drift experiments. In *Proc. 3rd International Workshop on Positron (electron)-gas scattering*. W. E. Kanppila, T. S. Stein, J. M. Wadehra (editors), Detroit 1985. (Singapore: World Scientific Publ. Co.) 73–84.

CLARKE, K. A. 1986. Computer tomography. In *Cellular Logic Image Processing*, 141–171. M. J. B. Duff and T. J. Fountain (editors). (London: Academic Press).

CLEGG, R. E. S. 1985. CNO in planetary nebulae. In *Proc. of ESO Workshop on 'Production and distribution of C, N, O Elements'*. I. J. Danziger and others (editors), 261–275.

CLEGG, R. E. S. (with Harrington J. P.) 1986. A Photoionisation model of NGC 3918. In *Workshop on Model Nebulae*. D. Pegquignot (editor), Observatoire de Meudon, July 1985. (Paris: Observatoire de Paris). 103–108.

CLEGG, R. E. S., STOREY, P. J. (with Harrington, J. P.) 1986. Ne III Charge-exchange lines in the planetary nebula NGC 3918. *Mon. Not. R. astr. Soc.*, vol. 221, 61–67.

COATES, A. J., JOHNSTONE, A. D., WRENN, G. L. (with Johnson, J. F. E., Sojka, J. J.) 1985. Ionospheric photoelectrons observed in the magnetosphere at distances of up to 7 earth radii. *Planet. Space Sci.*, vol. 33, 1267–1275.

COATES, A. J., JOHNSTONE, A. D., SMITH, M. F., RODGERS, D. J. 1986. AMPTE-UKS ion experiment observations of lithium releases in the solar wind. *J. Geophys. Res. A2*, vol. 91, 1311–1319.

COATES, A. J., JOHNSTONE, A. D. (with others) 1986. An active current sheet in the solar wind. *Nature*, vol. 318, 269–271.

COATES, A. J., SMITH, M. F. 1985. The earth's magnetic field yields its secrets. *New Scientists*, vol. 1486, 32–34.

COATES, A. J. 1985–86. Various interviews for County Sound (IRL) and Radio Mercury (IRL) on Giotto encounter rehearsals.

CONBOY, J. E. 1985. Constant scattering length fits to low energy K^-p interactions. *Rutherford Appleton Laboratory Report*, no. RAL-85-091, 1–16.

CULHANE, J. L. 1985. Capabilities of spectroscopy in the context of X-ray astronomy in the 1990s. In *Proc. ESA Workshop on Cosmic X-ray Spectroscopy Mission, Lyngby, Denmark, 24–26 June 1985. ESA SP-239*, 5–14.

CULHANE, J. L. (with Pounds, K. A., Warwick, R. S., de Korte, P. A.) 1986. The soft X-ray spectrum of NGC4151. *Mon. Not. R. astr. Soc.*, vol. 218, 685–694.

CULHANE, J. L. (with Pounds, K. A., Warwick, R. S., de Korte, P. A.) 1986. The soft-X-ray spectrum of NGC4151. *Space Sci. Rev.*, vol. 40, 585.

CULHANE, J. L., KELLETT, B. J. (and others) 1986. An EXOSAT observation of quiescent and flare coronal X-ray emission from Algol. *Astrophys. J.*, vol. 301, 262–274.

CULHANE, J. L., NORMAN, K., PARKINSON, J. H. 1986. Early results from the CHASE experiment flown on Spacelab 2. *J. Brit. Interplanetary Soc.*, vol. 39, 207–210.

CULHANE, J. L., NORMAN, K., PARKINSON, J. H. (with Gabriel, A., Lang, J., Patchett, B.) 1985. The coronal helium abundance Spacelab experiment. In *Spacelab 2 90 day post mission science report*. (NASA; Marshall Space Flight Center). 9/1–9/11.

CULHANE, J. L. 17 March 1986. BBC Radio 4, 'Science Now'.

DARIUS, J. 1985. Science museums and sacred cows. *Bull. Scientific Instrum. Soc.*, vol. 7, 1–2.

DARIUS, J. 1986. Collections: Cabinets and curios. *Bull. Scientific Instrum Soc.*, vol. 9, 1–2.
DARIUS, J. 1986. Essay review of Lesley Murdin *Under Newton's Shadow*. *Ann. Sci.*, vol. 43, 305–307.
DARIUS, J. 14 November 1985. World Service, BBC French News, Pierre Lefèbre interview.
DARIUS, J. February 1986. TV: Radio Canada, Science Réalité.
DARIUS, J. 11 April 1986. TV: Telenorba, Italy, Capire.
DARIUS, J. 12 April 1986. TV: Manchete, Brazil, Local news.
DARIUS, J. 12 April 1986. TV Globo, Brazil, Fantástico and national news.
DARIUS, J. Comets. Area Museum Service for South-East England Boreham Wood Civic Centre; Dover Museum; Kingston Polytechnic; Newbury Museum; Stevenage Leisure Centre; Hoddesdon Museum; Grange Museum; Harlow Museum; Luton Museum, 31 August 1985 to 10 August 1986.
DARIUS, J. Beyond Vision. Liverpool Museum, August 1985; Technodea Museum, Haifa, November–December 1985.
DAVIES, S. A., CURRY, P. J., CHARLTON, M., JACOBSEN, F. M. 1985. On positron drift velocities in gases – a survey of the experimental methods available. In *Proc. 3rd International Workshop on Positron (electron)-gas scattering*. W. E. Kanppila, T. S. Stein, J. M. Wadehra (editors). Detroit 1985. (Singapore: World Scientific Publ. Co.) 317–320.
DAVIS, D. H. (with Pniewski, J.) 1986. Hypernuclei. *Contemp. Phys.*, vol. 27, 91–116.
DAVIS, D. H., TOVEE, D. N. (with Dalitz, R. H.) 1986. Proton decay of excited hypernuclei. *Nucl. Phys. A.*, no. 450, 311c–328c.
DAVIS, D. H. (and others) 1985. Final state interactions in the decay of the hypernuclei $^{9}_{\Lambda}$Li and a reappraisal of the binding energies of A = 9 hypernuclei. *Nucl. Phys. A.* no. 443, 685–690.
DIEGO, F. 1985. Stellar image profiles from linear detectors and the throughput of astronomical instruments. *Pub. Astr. Soc. Pac.*, vol. 97, 1209–1214.
DIEGO, F., WALKER, D. D. 1985. On the possibility of increasing the throughput of astronomical spectrographs by overfilling the dispersing element. *Mon. Not. R. astr. Soc.*, vol. 217, 347–354.
DISERENS, M. J., SMITH, A. C. H. (with Harrison, M. F. A.) 1985. Ionisation of Tc^{+}, Tc^{2+} and Ar^{2+} by electron impact. *Electronic and Atomic Collisions, XIVth International Conf., Palo Alto. Astr. Contributed Papers*. M. J. Coggiola, D. L. Huestis, R. P. Saxon (editors). (Palo Alto: Int. Conf. Physics Elec. Atomic Coll.). 300.
DUFF, B. G. 1986. *Fundamental Particles – An Introduction of Quarks and Leptons*. (London and Philadelphia: Taylor and Francis) v–xi + 122 pp.
DUFF, M. J. B. 1985. Architectures of SIMD Cellular Logic Image Processing Arrays. In *Computer Architectures for Spatially Distributed Data*, 19–36. H. Freeman and G. G. Pieroni (editors). (Berlin: Springer-Verlag).
DUFF, M. J. B., FOUNTAIN, T. J. (Editors.) 1986. *Cellular Logic Image Processing*. (London: Academic Press.) x + 277 pp.
DUFF, M. J. B. 1986. Introduction. *Ibid.*, 1–10.
DWORETSKY, M. M. 1986. Non-magnetic intermediate-temperature stars: A review. In *Upper Main Sequence Stars with Anomalous Abundances (IAU Coll. 90)*. C. R. Cowley *et al.* (editors). Crimean Astrophysical Obs., May 1985 (Dordrecht: Reidel). 397–419.

DWORETSKY. M. M., MOON, T. T. 1986. On the surface gravities of Am stars. *Mon. Not. R. astr. Soc.*, vol. 220, 787–792.

ESTEN, M. J. (and others). 1986. Experimental study of uranium-scintillator and iron-scintillator calorimeter in the energy range 135–350 GeV. *Nucl. Instrum. and Methods A*, vol. 243, 348–360.

FERNLEY, J. A. (with Longmore, A. J. and Jameson, R. F.) 1986. Infrared observations of RR Lyraes in Globular Clusters. *Mon. Not. R. astr. Soc.*, vol. 220, 279–287.

FERNLEY, J. A. (and others) 1985. An analysis of the field of RR Lyrae VY Serpens. *Mon. Not. R. astr. Soc.*, vol. 216, 873–892.

FITCH, P. J., AZEMOON, T., BULLOCK, F. W., SANSUM, R. A. (and others) 1986. Evidence for higher twist effects in fast π^- production by antineutrinos in neon. *Z. Phys. C.*, vol. 31, 51–58.

FORDHAM, J. L. A. (with Jorden, A. R.) 1986. Reducing the granularity noise of an Image Photon Counting System by magnetic scanning. *Q. J. R. astr. Soc.*, vol. 27, 166–181.

FOUNTAIN, T. J. 1986. Further developments. In *Cellular Logic Image Processing*, 239–266. M. J. B. Duff and T. J. Fountain (editors). (London: Academic Press).

FULLER-ROWELL, T. J. (with Gordon, R. and Rishbeth, H.) 1985. Modelling of thermospheric composition changes caused by a severe magnetic storm. *Planet. Space Sci.*, vol. 33, 1283–1301.

FURNISS, I. (and others) 1986. The long-wavelength spectrometer (LWS) for ISO. In *SPIE Proc: Instrumentation for optical remote sensing from Space, Cannes, France, November 1985,* 589, 194–200.

GENERALIS, S. C. 1985. Dimension-8 contributions to light-quark, QCD SUM rules *Phys. Lett. B.*, vol. 165, 175–180.

GLASSE, A. CH., TOWLSON, W. A., AITKEN, D. K., ROCHE, P. K. 1986. High-resolution infrared spectroscopy: a search for the 11.52 μm graphite feature. *Mon. Not. R. astr. Soc.*, vol. 220, 185–188.

GRIFFITH, T. C. 1985. A tribute to the memory of Sir Harrie Massey. In *Positron (electron)-gas scattering*, 3–10. W. E. Kanppila, T. S. Stein, J. M. Wadehra (editors). (Singapore: World Scientific Publ. Co.).

GROVES, G. V. 1986. The O/O_2 ratio and eddy mixing at heights from 85 km to the turbopause. *J. Atmos. Terr. Phys.*, vol. 48, 563–571.

GUEST, J. E. (with Spudis, P. D.) 1985. The Aristarchus impact event and the effects of target strength. *Geol. Mag.*, vol. 122, 317–327.

GUEST, J. E., KILBURN, C. R. J. (with Chester, D. K. and Duncan, A. M.) 1985. *Mount Etna – The Anatomy of a Volcano* (London: Chapman and Hall) i–viii + 404 pp.

HASTED, J. B. 1985. The biomoloecular effects of electromagnetic radiation. Classical or quantum physics? *J. Bioelectricity*, vol. 4(2), 367–387.

HASTED, J. B. (with Husain, S. K., Frescura, F. A. M., Birch, J. R.) 1985. Far-infrared absorption in liquid water. *Chem. Phys. Lett.*, vol. 118, no. 6, 622–625.

HOBSON, P. R., IMRIE, D. C., LUSH, G. J. 1985. The Holographic Film Scanning machine CHIMAERA. *Nucl. Instrum. and Methods A*, 155–159.

HORMIS, W. G., KAMBER, E. Y., HASTED, J. B. 1986. Differential N^{2+}-He collisions with capture. *Int. J. Mass Spectrom. and Ion Proc.*, vol. 69, 211–216.

HUMBERSTON, J. W. 1986. Positronium formation. In *Proc. 3rd International Workshop on Positron (Electron)-Gas Scattering*. Detroit, 1985. (Singapore: World Scientific Publishing Co. Pte Ltd.) 35–47.

HUMBERSTON, J. W. (with Ward, S. J., McDowell, M. R. C.) 1985. The scattering of low energy s-wave electrons by positronium. *J. Phys. B*, vol. 18, L525–L530.

HUMBERSTON, J. W. 1986. The photodetechment of the negative ion of positronium. *Europhys. Lett.*, vol. 1, 167–171.

HUMBERSTON, J. W. 1986. The scattering of low energy electrons by positronium. In *Proc. 3rd International Workshop on Positron (Electron)-Gas Scattering*. Detroit, 1985. (Singapore: World Scientific Publishing Co. Pte Ltd.). 307–309.

HUMBERSTON, J. W., BROWN, C. J. 1985. Positronium formation in d-wave positron-hydrogen scattering. *Electronic and Atomic Collisions*, XIVth Int. Conf. Palo Alto 1985, Abstr. Contributed Papers M. J. Goggiola, D. L. Huestis, R. P. Saxon (editors). (Palo Alto: Int. Conf. Phys. Elec. Atomic Coll. 320).

HUMBERSTON, J. W., BROWN, C. J. 1986. Positronium formation in positron-hydrogen scattering. In *Proc. 3rd International Workshop on Positron (Electron)-Gas Scattering*. Detroit, 1985. (Singapore: World Scientific Publishing Co. Pte Ltd.). 286–288.

INNES, D. E., GIDDINGS, J. R. (with Falle, S. A. E. G.) 1985. Non-steady radiative shocks. In *Cosmical Gas Dynamics*, 143–148. F. D. Kahn (editor), Manchester, April 1985. (Utrecht: VNU Science Press).

INNES, D. E. 1986. Gas dynamic calculations of non-steady radiative shocks: Variations in emission line ratios. In *Proc. Workshop on Model Nebulae*. D. Pequignot (editor), Observatoire de Meudon, July 1985. (Paris: Observatoire de Paris). 153–158.

IP, H.H-S. 1986. Serial section reconstruction. In *Cellular Logic Image Processing*, 95–109. M. J. B. Duff and T. J. Fountain (editors). (London: Academic Press).

JACOBSEN, F. M. 1986. A positronium formation in low-density gases: slowing down of positrons. *Chem. Phys.*, vol. 101, 259–267.

JACOBSEN, F. M. (and others) 1985. Positronium formation in organic liquids. In *Positron Annihilation*, 205–207. P. C. Jain, R. M. Singen, K. P. Gopinathan (editors). (Singapore: World Scientific Publ. Co. Pte Ltd.).

JACOBSEN, F. M., CHARLTON, M., LARICCHIA, G. 1986. Comment on the density and electric field dependence of the positronium fraction in gaseous methane. *J. Phys. B*, vol. 19, L111–L116.

JACOBSEN, F. M. (with Freeman, G. R.) 1986. Electron and cation transport in gaseous carbon dioxide: density and temperature effects. *J. Chem. Phys.*, vol. 84, 3396–3404.

JENNINGS, R. E., CUDLIP, W. C., HIRST, C. J., CAMERON, D. H. M. 1985. Analysis of point sources in the Ophiuchus and Perseus clouds. In *Light on Dark matter*, 299. F. P. Israel (editor). (Dordrecht: Reidel).

JENNINGS, R. E., CUDLIP, W. C., HIRST, C. J., CAMERON, D. H. M. 1985. CPC observations of NGC 1333. *Ibid.*, 300.

JERRAM, P. A., SMITH, A. C. H. 1985. Velocity dependence of associative and dissociative ionization of rare gas atoms and simple molecules by He 2^3S atoms. *Electronic and Atomic Collisions, XIVth International Conf. Palo Alto 1985, Abstr. Contributed Papers*. M. J. Coggiola, D. L. Huestis, R. P. Saxon (editors). (Palo Alto: Int. Conf. Phys. Elec. Atomic Coll.). 374.

JERRAM, P. A., SMITH, A. C. H. 1985. Velocity dependence of Chemi-ionization of rare gas atoms and simple molecules. *Ibid.*, 375.

JERRAM, P. A., SMITH, A. C. H. 1985. Absolute total Chemi-ionization cross sections for collisions of He(2^{3s}) atoms with rare gas atoms and simple molecules. *J. Phys. B*, vol. 18, 1747–1757.

JOHNSTONE, A. D. 1985. Comets. In *Solar System Magnetic Fields*, 257–283. E. R. Priest (editor). (Dordrecht: Reidel).

JOHNSTONE, A. D. 1986. Various interviews for County Sound (IRL), Radio Mercury (IRL) and BBC Radio 4 during Giotto encounter period.

JOHNSTONE, A. D., BOWLES, J. A., COATES, A. J., COKER, A. J., RAYMONT, J. (and others) 1986. The Giotto three-dimensional positive ion analyser. *The Giotto Mission – its scientific investigations*, ESA SP–1077, 15–32.

JOHNSTONE, A. D., COATES, A. J. (and others) 1986. Ion flow at Halley's Comet. *Nature*, vol. 321, 344–347.

JONES, T. W. 1986. Deep underground detectors and their uses. *Proc. R. Soc. Lond A.*, 253–272.

JONES, T. W. (and others) 1985. Experimental limits on monopole catalysis, NN oscillations and nucleon lifetimes. *Nucl. Phys. B.*, vol. 252, 261–275.

KELLETT, B. J. 1985. EXOSAT PSD and CMA observations of the SNR PKS 1209–1252. *Space Sci. Rev.*, vol. 40, 475–480.

KILBURN, C. R. J. 1986. In the jaws of the volcano. *New Sci.*, vol, 109, 42–46.

LAMB, P., RAYMONT, J. (and others) 1985. The X-ray gas scintillation spectrometer experiment on the first Spacelab flight. *Sp. Sci. Astrophys.*, vol. 116, 61–79.

LAMB, P., RAYMONT, J. (and others) 1985. Spacelab programme – Experiment 1ESO23 – Spectroscopy in X-ray astronomy: Preliminary results and implications. *Earth-Orient. applic. Space Technol.*, vol. 5, 105–110.

LAPINGTON, J. S., SCHWARZ, H. E. 1986. The design and manufacture of wedge and strip anodes. *IEEE Trans. Nucl. Sci.*, vol. 33, 288–292.

LARICCHIA, G., JACOBSEN, F. M. 1985. Positron slowing down in molecular hydrogen – a Monte Carlo study. In *Proc. 3rd International Workshop on Positron (electron)-gas scattering*. W. E. Kanppila, T. S. Stein, J. M. Wadehra (editors), Detroit, 1985. (Singapore: World Scientific Publ. Co. Pte Ltd.). 329–333.

LARICCHIA, G. CHARLTON, M. GRIFFITH, T. C., JACOBSEN, F. M. 1985. Preliminary results on the angular dependence of Ps emission in e^+ gas collisions. *Ibid.*, 303–306.

LEMEN, J. R. (and others) 1985. Solar X-ray spectrum simulations for flaring loop models with emphasis on transient ionization effects during the impulsive phase. *Astron. Astrophys.*, vol. 152, 229–236.

LIGHTFOOT, J. F., GLENCROSS, W. M. 1985. The high velocity outflow in Herbig-Haro 7–11. In *Cosmical Gas Dynamics*, 293–298. F. D. Kahn (editor). (Utrecht: VNU Science Press).

LYNAS-GRAY, A. E. 1985. Collaborative computational project No. 7. Analysis of astronomical spectra. *Q.J.R. Astron. Soc.*, vol. 26, 521–528.

McINTYRE, N. F. 1985. Interpretation of altimeter data over sea ice. In *Proc. Conf. on the Use of Satellite Data in Climate Models*. ESA SP-244, 77–78.

McINTYRE, N. F. 1986. Antarctic ice-sheet topography and surface-bedrock relationships. *Annals of Glaciology*, vol. 8, 124–128.

McINTYRE, N. F. 1985. Radar altimetry over sea ice. *Advanced Technology for Monitoring and Processing Global Environmental Data*, 475–484.

McINTYRE, N. F. (with Dowdeswell, J. A.) 1986. The saturation of LANDSAT MSS detectors over large ice masses. *Int. J. Remote Sensing*, vol. 1, no. 7, 151–164.

McINTYRE, N. F. (with Powell, R. J. and Squire, V. A.) 1985. A radar altimeter and the validation of its data products over ice surfaces. In *Proc. EARSeL/ESA Symposium on*

European Remote Sensing Opportunities: Systems, Sensors and Applications, Strasbourg, 31 March–3 April 1985, ESA SP-233, 3–11.

McINTYRE, N. F. (and others) 1986. Analysis of altimetry data from the Marginal Ice Zone Experiment. *ESA Report/5948/NL/BI*, 1–200.

MASON, I. M., RAPLEY, G. C., GUZKOWSKA, M. A. J. (with Street-Perrott, F. A.) 1985. ERS-1 observations of lakes for climate research. *European Remote Sensing Opportunities*, ESA SP-233, 235–241.

MASON, K. O. 1985. X-ray emission from cataclysmic variables. *Space Sci. Rev.*, vol. 40, 99.

MASON, K. O., BRANDUARDI-RAYMONT, G. (with Cordova, F. A., Corbet, R. H. D.) 1985. An EXOSAT observation of the peculiar X-ray binary 2SO921–630 during optical eclipse. *Ibid.*, 225.

MASON, K. O., ROSEN, S. 1985. EXOSAT observations of NGC1399 and NGC1404: Two elliptical galaxies in the center of the Fornax cluster. *Ibid.*, 675.

MASON, K. O., ROSEN, S. (with Osborne, J., Bonnet-Bidaud, J. M., Beuermann, K.) 1985. EXOSAT observations of intermediate polars: preliminary results. In *X-ray Astronomy 1984*, 63. M. Oda and R. Giacconi (editors). (Tokyo: Institute of Space and Astronautical Science).

MASON,K. O. (and others) 1985. The variable iron line in Cygnus X-3. *Space Sci. Rev.*, vol. 40, 297.

MASON, K. O. (and others) 1985. EXOSAT observations of AM Her objects: preliminary results. *X-Ray Astronomy 1984*, 59. M. Oda and R. Giacconi (editors). (Tokyo: Institute of Space and Astronautical Science).

MASON, K. O. (and others) 1985. EXOSAT observations of the Andromeda nebula. *Ibid.*, 373.

MASON, K. O. (and others) 1985. The discovery of a 25 minute regular modulation in the X-ray flux of 2SO142+61. *Space Sci. Rev.*, vol. 40, 157.

MASON, K. O. (with White, N. E.) 1985. The structure of low-mass X-ray binaries. *Space Sci. Rev.*, vol. 40, 167.

MASON, K. O. (with Parmar, A. N., White, N. E.) 1985. Simultaneous X-ray and optical observations of the X-ray dip source X1755-338. *Mon. Not. R. astr. Soc.*, vol. 216, 1033.

MASON, K. O. (with Palmar, A. N., White, N. E., Stajno, M.) 1985. An investigation into the nature of the 4.4 hour periodic source 4U1755–33. *Space Sci. Rev.*, vol. 40, 213.

MASON, K. O., BRANDUARDI-RAYMONT, G. (and others) 1986. A study of the continuum and iron K line emission from low mass X-ray binaries. *Mon. Not. R. astr. Soc.*, vol. 218, 129–138.

MASON, N. J., NEWELL, W. R. 1985. Resonances in metastable excitation. *Electronic and Atomic Collisions, XIVth International Conf. Palo Alto 1985, Abstr. Contributed Papers*. M. J. Goggiola, D. L. Heustis, R. P. Saxon (editors). (Palo Alto: Int. Conf. Physics Elec. Atomic Coll.). 145.

MASON, N. J., NEWELL, W. R. 1986. Electron resonance structure observed in the $C^3\pi_u$ and $B^1\Sigma_u^+$ cross section of H_2. *J. Phys. B*, vol. 19, L203–L207.

MASSEY, SIR HARRIE, ROBINS, M. O. 1986. *History of British Space Science*. Cambridge: Cambridge University Press). v–xxi + 514 pp.

MILLER, D. J. 1984. Elementary kaon scattering at low energies. *Conf. on Intersections between Particle and Nuclear Physics, Steamboat Springs 1984*. (AIP Conference Proceedings) no. 123, 783–798.

MILLER, D. J. 1985. Consumers 1985 Guide to Particle Detectors. *Summer School, Kupari, Yugoslavia, September 1985.* (UCL Report).

MOON, T. T. 1985. Stellar parameters from Stromgren photometry:. Fortran programs. *Comm. Univ. London Obs.* no. 78, 1–23.

MOON, T. T. 1985. Stellar luminosities and radii from uvby(beta) photometry. *Astrophys. Space Sci.*, vol. 117, 261–270.

MOON, T. T. 1986. Spectral types from uvby(beta) photometry. *Astrophys. Space Sci.*, vol. 122, 173–176.

MOON, T. T., DWORETSKY, M. M. 1985. Grids for the determination of effective temperature and surface gravity of B, A and F stars using uvby(beta) photometry. *Mon. Not. R. astr. Soc.*, vol. 217, 305–315.

OTTO, G. P. 1986. Propagation in cellular arrays. In *Cellular Logic Image Processing*, 41–68. M. J. B. Duff and T. J. Fountain (editors). (London: Academic Press).

PARKINSON, J. H. 1986. Observing the sun with CHASE on Spacelab 2. *The Observatory*, vol. 106, 31–32.

PARTINGTON, K. C., RAPLEY, C. G. 1986. Analysis and simulation of altimeter performance for the production of ice sheet topographic maps. *Annals of Glaciology*, vol. 8, 141–145.

PASS, S. D. 1986. Basic CLIP processing. In *Cellular Logic Image Processing*, 11–39. M. J. B. Duff and T. J. Fountain (editors). (London: Academic Press).

PEACH, G. (with Willis, S. L., McDowell, M. R. C. and Banerji, J.) 1985. Charge transfer and ionization processes in collisions involving atoms and ions of hydrogen and helium. *J. Phys. B*, vol. 18, 3939–3950.

PEACH, G. (with Willis, S. L., McDowell, M. R. C.) 1985. The classical theory of charge transfer and ionization processes in collisions between complex atomic ions. *Ibid.*, 3921–3937.

POTTER, D. J. 1986. Colony counting and analysis. In *Cellular Logic Image Processing*, 111–140. M. J. B. Duff and T. J. Fountain (editors). (London: Academic Press).

POTTER, D. J. 1985. Computer-assisted analysis of two-dimensional electrophoresis images using an array processor. *Computers and Biomed. Res.*, vol. 18, 347–362.

POTTER, D. J., DUFF, M. J. B. (with Rosendaal, M., Adam, J.) 1986. Assessing cultured colonies automatically. *Leuk. Res.*, vol. 10, 539–547.

POTTER, D. J., IP, H.H-S. 1986. Biomedical image processing using the CLIP system. *Image and Vision Computing*, vol. 4, 2–10.

PRINJA, R. K., HOWARTH, I. D. 1985. The effects of episodic mass–loss enhancements on theoretical P Cygni profiles. *Astron. Astrophys.*, vol. 149, 73–82.

PRINJA, R. K., HOWARTH, I. D. 1986. 0 star winds: Is rotation important? In *IAU Symp. 116 Luminous stars and associations in galaxies.* C. de Loore, A. J. Willis, P. G. Laskarides (editors). Porto Heli, Greece, May 1985. (Dordrecht: Reidel.) 93–94.

PRINJA, R. K., HOWARTH, I. D. 1985. Narrow absorption components and variability in UV P Cygni profiles of early-type stars. *Astrophys. J. Suppl.*, vol. 61, 357–418.

PRINJA, R. K., HOWARTH, I. D. (and others) 1985. Quasi-periodic modulation in the stellar wind of Xi Per. *Bull. Am. Astron. Soc.*, vol. 17, 59.

PRINJA, R. K., HOWARTH, I. D. (and others) 1985. Short timescale UV line profile variability in three Be stars. *Ibid.*, 32.

RAPLEY, C. G. (and others) 1986. Problems and future directions in remote sensing of the oceans and troposphere: A workshop report. *J. Geophys. Res.*, C2, vol. 91, 2525–2548.

RAPLEY, C. G., WINGHAM, D. J., GUZKOWSKA, M. A. J. (and others) 1986. Advanced altimeter subsystems. *ESA CR-6079/84/NL/GM(SC)*, 1–427.

RAPLEY, C. G., McINTYRE, N. F., SCOTT, R. F. (and others) 1985. ERS-1 altimeter tracker performance simulation. In *Proc. EARSeL/ESA Symposium on European Remote Sensing Opportunities: Systems, Sensors and Applications, 31 March–3 April 1985, Strasbourg*. ESA SP-233, 247–251.

RAPLEY, C. G. (with Griffiths, H. D.) 1985. Geophysical radar altimeters for the 1990s. *Ibid.*, 157–165.

RAPLEY, C. G. (with Griffiths, H. D., Milne, K. and Wingham, D. J.) 1985. A study of antenna signal processing techniques for radar altimeters. *ESA CR-6001/84/NL/GM*, 1–160.

REES, D. 1985. The response of the high latitude thermosphere of geomagnetic activity. *Adv. Space Res.*, vol. 5, 267–282.

REES, D. 1985. Theoretical thermosphere models. *Ibid.*, 215–228.

REES, D. (with Charleton, P. Carlson, M., Rounce, P.) 1985. High latitude thermospheric circulation during the Energy Budget campaign. *J. Atmos. and Terr. Phys.*, vol. 47, 195–232.

REES, D., WELLS, M. 1986. A precision wavelength meter for a pulsed laser. *J. Phys. E*, vol. 19, 301–308.

REES, D. (and others) 1986. Optical observations of the AMPTE 'Artificial Comet' release from the northern hemisphere stations. *Nature*, vol. 320, 704–708.

REES, D. (and others) 1985. Wind structure and variability in the middle atmosphere during the November 1980 Energy Budget campaign. *J. Atmos. Terr. Phys.*, vol. 47, 183–193.

REES, D. (and others) 1985. Thermospheric winds in the cusp: dependence of the latitude of the cusp. *Planet. Space Sci.*, vol. 33, 305–313.

REES, D. (and others) 1985. First measurements of thermospheric winds in Antarctica by an optical ground-based method. *Nature*, vol. 317, 45–47.

REES, D., FULLER-ROWELL, T. J., GORDON, R., SMITH, M. F. (and others) 1986. A theoretical and empirical study of the response of the high latitude thermosphere to the sense of the 'Y' component of the interplanetary magnetic field. *Planet. Space Sci.*, vol. 34, 1–40.

REES, D., FULLER-ROWELL, T. J., SMITH, M. F., GORDON, R. 1985. The westward thermospheric jet stream of the evening auroral oval. *Planet. Space Sci.*, vol. 33, 425–456.

REES, D., GORDON, R., FULLER-ROWELL, T. J. (and others) 1985. The composition, structure, temperature and dynamics of the upper atmosphere in the polar regions during October to December 1981. *Ibid.*, 617–666.

REYNOLDS, D. E. 1986. Automatic segmentation. In *Cellular Logic Image Processing*, 209–238. M. J. B. Duff and T. J. Fountain (editors). (London: Academic Press).

RODGERS, D. J., COATES, A. J., JOHNSTONE, A. D., SMITH, M. F. (with Bryant, D. A., Hall, D. S., Chaloner, C. P.) 1986. UKS plasma measurements near the AMPTE artificial comet. *Nature*, vol. 320, 712–716.

ROSEN, S. R., MASON, K. O. (with Osborne, J. P., Beuermann, K.) 1985. New EXOSAT results from the Intermediate Polar V1223 Sgr. *Space Sci. Rev.*, vol. 40, 143.

SARAPH, H. E. 1986. Photoionization of atomic ions. In *Proc. of the Daresbury Study Weekend*, 30th March 1985. 117–123.

SCHWARZ, H. E. 1985. The Penning gas imager in a space application. *Proc. ESA Workshop on Cosmic X-ray spectroscopy mission, Lyngby, Denmark, 24–26 June 1985.* ESA SP-239, 287–290.

SCHWARZ, H. E. 1986. Reply to Comments on the hotspots model for the polarization of alpha orionis. *Astron. Astrophys.*, vol. 161, L16.

SCHWARZ, H. E. (with Aspin, C.) 1986. The polarigenic mechanisms in the VU Canis Majoris system. *Astron. Astrophys.*, vol. 162, 99–102.

SCHWARZ, H. E. (with Aspin, C., McLean, I. S.) 1985. Polarization structure and variability in the optical spectrum of VY Canis Majoris. *Astron. Astrophys.*, vol. 151, 169–173.

SCHWARZ, H. E. (with Aspin, C., McLean, I. S., Boyle, R. P.) 1985. Discovery of polarization structure in the optical spectrum of the peculiar symbiotic star R Aquarii. *Astron. Astrophys*, vol. 149, L21–L23.

SEATON, M. J. 1986. Atomic data required for opacity calculations. *Spectral Line Shapes*, vol. 4, 1–21.

SEATON, M. J. 1985. Use of the R-matrix method for bound-state calculations: I – General theory. *J. Phys. B.*, vol. 18, 2111–2131.

SEATON, M. J., BAYES, F. A., SARAPH, H. E. 1985. Collision strength for the [Ne II] line at 12.8 μm *Mon. Not. R. astr. Soc.*, vol. 215, 85–87.

SEATON, M. J., YU, Y. 1985. R-matrix theory of the hydrogen atom. *J. Phys. B.*, vol. 18, 2577–2585.

SEATON, M. J. (with Bell, R. H.) 1986. Convergence of the Coulomb-Bethe approximation for electron impact excitation of positive ions. *J. Phys. B.*, vol. 19, L95–L97.

SEATON, M. J. (with Berrington, K. A.) 1985. Use of the R-matrix method for bound-state calculations: II – Results for energy levels of C^+. *J. Phys. B.*, vol. 18, 2587–2599.

SMALE, A. P., BRANDUARDI-RAYMONT, G., MASON, K. O. (with Corbet, R. H. D., Menzies, J. W. Charles, P. A.) 1985. The long term variability of 4U1258-61 (GX304-1). *Space Sci. Rev.*, vol. 40, 415.

SMITH, A. D., ALLINGTON-SMITH, J. R. 1986. A study of microchannel plate intensifiers. *IEEE Trans. Nucl. Sci.*, vol. 1, no. 33, 295–298.

SMITH, M. F., REES, D. 1985. Solar EUV heating efficiencies in the thermosphere. *Planet. Space Sci.*, vol. 33, 1451–1454.

SMITH, L. J. (with Campbell, A. W.) 1986. A search for Wolf-Rayet stars in giant extragalactic bursts of star formation. In *IAU Symp. 116 Luminous Stars and associations in galaxies*. C. de Loore, A. J. Willis, P. G. Laskarides (editors), Porto Heli, Greece, May 1985. (Dordrecht: Reidel). 499–501.

SMITH, L. J. (with Dyson, J. E.) 1985. The energetics of nebulae associated with Wolf-Rayet stars. In *Cosmical Gas Dynamics*, 173–188. P. D. Kahn (editor). (Utrecht: VNU Science Press).

SOMERVILLE, W. B. 1986. IH. Cas = AR Cas. *Observatory*, vol. 106, 40–42.

SOMERVILLE, W. B. 18 June 1986. BBC2 TV, Open University, Spectroscopy in Action.

SOMERVILLE, W. B. 19 June 1985. BBC2 TV, Open University, Galaxies in Motion.

SOMERVILLE, W. B. 27 July 1985. BBC2 TV, Open University, Active Galaxies.

STOREY, P. J. (with Nussbaumer, H.) 1986. Dielectronic recombination at low temperature. III – Recombination coefficients for M_g, Al, Si. *Astron. Astrophys. Suppl.*, vol. 64, 545–555.

TENNYSON, J. 1986. The calculation of the vibration–rotation energies of triatomic molecules using scattering coordinates. *Computer Physics Reports*, vol. 4, 1–36.
TENNYSON, J. 1985. On the calculation of matrix elements of polynomial basis functions. *Comp. Phys. Commun.*, vol. 36, 39–41.
TENNYSON, J. 1985. Quantum vibrational chaos in the ArHCl Van der Waals molecule. *Mol. Phys.*, vol. 55, 464–473.
TENNYSON, J. (with Baluja, K. L., Noble, C. J.) 1985. Spin-forbidden electronic excitation in e-H_2 collisions. *J. Phys. B.*, vol. 18, L851–L855.
TENNYSON, J. (with Brocks, G., Farantos, S. C.) 1986. Transition intensities and fluorescence lifetimes for regular and chaotic states of LiCN. *Chem. Phys.*, vol. 104, 399–407.
TENNYSON, J. (with Farantos, S. C.) 1986. On the Born-Oppenheimer approximation for vibrational wavefunctions of small molecules. *J. Chem. Phys.*, vol. 84, 6210–6217.
TENNYSON, J. (with Noble, C. J., Burke, P. G.) 1986. Continuum states of the hydrogen molecule. *Int. J. Quantum Chem.*, vol. 29, 1033–1042.
TENNYSON, J. (with Sutcliffe, B. T.) 1985. A calculation of the rovibrational spectra of H_3^+, H_2D^+ and HD_2^+. *Mol. Phys.*, vol. 56, 1175–1183.
WALKER, D. D., DIEGO, F. 1985. Design philosophy of the forthcoming echelle spectrographs for the AAT and LPO. *Mon. Not. R. astr. Soc.*, vol. 217, 355–365.
WALKER, D. D., DIEGO, F. 1984. The new Coudé echelle spectrograph for the Anglo Australian Telescope. In *Proc. IAU Coll. 79, Very Large Telescopes, their instrumentation and programs. Garching, 9–12 April 1984*, 499–513.
WALKER, D. D., SANFORD, P., FORDHAM, J., BONE, D. (with Lyons, A.) 1985. The UCL charge-coupled device camera at the South African Astronomical Observatory, *Advances in Electronics and Electron Physics*, vol. 64A, 185–192.
WALTON, D. M., CULHANE, J. L. (with Stern, R. A., Catura, R. C.) 1985. X-ray applications of deep-depletion CCDs. In *Proc. ESA Workshop on Cosmic X-ray spectroscopy mission, Lyngby, Denmark 24–26 June 1985.* ESA SP-239, 291–295.
WILKIN, C. (with Germond, J-F.) 1985. Coherent pion production and the excited states of ^{5}He. *J. Phys. G*, vol. 11, 1131–1143.
WILLIS, A. J. 1985. Wolf-Rayet stars and binarity. In *Interacting Binaries*, 103–127. P. Eggleton, J. Pringle (editors), Cambridge, August 1983. (Dordrecht: Reidel.)
WILLIS, A. J. (with Stickland, D. J., Lloyd, C.) 1985. IRAS observations of AS 431 – a super luminous WR star? *Astron. Astrophys*, vol. 150, L9–L11.
WILLIS, A. J. (with Stickland, D. J., Lloyd, C.) 1986. Is AS 431 a superluminous WR star? In *IAU Symp. 116, Luminous Stars and Associations in Galaxies.* C. de Loore, A. J. Willis, P. G. Laskarides (editors), Porto Heli, Greece, May 1985. (Dordrecht: Reidel.) 229–230.
WILLIS, A. J., HOWARTH, I. D. (with Conti, P. S., Garmany, C. D.) 1986. Rapid UV spectral variations in HD 50896. *Ibid.*, 259–260.
WILLIS, A. J., HOWARTH, I. D. (with Nandy, K., Morgan, D. H.) 1986. The mass loss rate of Sk 80 in the SMC. *Ibid.*, 269.
WILLIS, A. J., WILSON, R. (and others) 1983. Visible and ultraviolet observations of giant early-type members of the LMC. *Mon. Not. R. astr. Soc.*, vol. 205, 231–240.
WILLIS, A. J. (and others) 1984. An episodic red-wing structure of Si 1V 1393A in Gamma Cas. In *Future of UV Astronomy based on 6 years of IUE Research (NASA Cp 2349).* J. M. Mead, R. D. Chapman, Y. Kondo (editors), Goddard Space Flight Center (sic), April 1984. (Washington: NASA.) 243–249.

WILLIS, A. J. (and others) 1986. The end of the shell phase and normal B phase of Theta CrB in the far UV and visual in 1980–1985. *Astron. Astrophys.*, vol. 158, 1–13.

WILLIS, A. J. (and others) 1986. Scientific Priorities for UK Astronomical Research for the Period 1990–2000. *Roy. Astr. Soc. Report.* April 1986, p. 112.

WILLIS, A. J. (with van der Hucht, K. A., Conti, P. S., Garmany, C. D.) 1986. An atlas of high resolution IUE ultraviolet spectra of 14 galactic WR stars. *Astron. Astrophys. Suppl.*, vol. 67, 417–599.

WOOD, A. M. 1986. Motion analysis. In *Cellular Logic Image Processing*, 173–207. M. J. B. Duff and T. J. Fountain (editors). (London: Academic Press).

WOOD, A. M., REYNOLDS, D. E. 1986. Software for CLIP4. *Ibid.*, 69–94.

PSYCHOLOGY

BAINBRIDGE, L. 1985. Inferring from verbal reports to cognitive processes. In *The Research Interview*, 201–215. M. Brenner, J. Brown, and D. Canter (editors). (London: Academic Press).

BAINBRIDGE, L. 1986. What should a 'good' model of the NPP operator contain? In *Proc. International Topical Meeting: Advances in Human Factors in Nuclear Power Systems, Knoxville, Tennessee, 21–24 April 1986*, 3–11.

BIRNBAUM, R. (with Bellotti, V.) 1985. The ergonomics of the driver/passenger interface of one-person-operated London buses. In *Proc. 9th Congress of the International Ergonomics Association*. I. D. Brown, R. Goldsmith, K. Coombes and M. A. Sinclair (editors), Bournemouth, England, 2–6 September 1985. (London and Philadelphia: Taylor and Francis). 760–762.

DAVIES, CHRISTINA, STANFORD, CLARE, STEINBERG, HANNAH, SYKES ELIZABETH, A. 1986. Unusual behaviour and binding effects after co-administration of clenbuterol and chlordiazepoxide in mice. *Brit. J. Pharmac.*, vol. 89, Proc. Suppl. 531P.

DIAPER, D., LONG, J. (with Johnson, P.) 1985. Task analysis in interactive systems design and evaluation. In *Proc. 2nd IFAC/IFIP Conference in Design and Evaluation Techniques for Man-Machine Sytems*. G. Johannsen, G. Mancini and L. Martensson (editors), Varese, Italy, September 1985. (Oxford: Pergamon Press). 123–129.

DIXON, N. F. (with Hentschel, U., Smith, G.) 1986. Subliminal perception and microgenesis in the context of personality research. In *Personality Psychology in Europe*, vol. 2, 239–252. A. Angleitner, A. Furnham and G. van Heck (editors). (Lisse: Swets & Zeitlinger B.V.).

EVETT, L. J. (with Humphreys, G. W.) 1985. Are there independent lexical and non-lexical routes in word processing? An evaluation of dual route theories of reading. *Behavioural and Brain Sciences*, vol. 8, no. 4, 689–739.

FONAGY, P. 1986. Research on psychoanalytic concepts. In *Personality* (2nd edition), 57–72. F. Fransella (editor). (London: Methuen).

FONAGY, P. (with Moran, G. S.) 1986. Psychoanalytically informed approach to chronic illness in children: the paradigm of diabetes. In *Proc. 11th International Congress of The Association for Child and Adolescent Psychiatry and Allied Professions, Paris, 21–25 July*, 209.

FONAGY, P. (with Moran, G. S.) 1986. The influence of residual insulin secretion, psychological adjustment and management styles on diabetic control in children with IDDM. *Ibid.*, 210.

FONAGY, P. (with Dolan, R., Calloway, S. P., Wakoling, A.) 1985. Endocrine changes with life-events in depression. *Brit. J. Psychiatry*, vol. 147, 175–182.

FONAGY, P. (with Higgit, A., Lader, M. H.) 1986. Benzodiazepine dependence: a guide to clinical management. *Brit. Med. J.*, vol. 291, 688–690.

FONAGY, P. (with Higgit, A., Lader, M. H.) 1986. Psychophysiological performance and subjective efforts of $Ro_{15-1788}$ in normal subjects. *Psychopharmacology*, vol. 89, 395–403.

FONAGY, P. (with Calloway, S. P.) 1986. The effect of emotional arousal on spontaneous swallowing rates. *J. of Psychosomatic Res.*, vol. 30, 183–188.

FONAGY, P. 12 May 1986. BBC1, QED 'The meaning of dreams'.

FRITH, U. 1985. Beneath the surface of developmental dyslexia. In *Surface dyslexia: neuropsychological and cognitive studies of phonological reading*. K. Patterson, J. Marshall and M. Coltheart (editors). (London: Erlbaum).

FRITH, U. 1985. Recent experiments on autistic children's cognitive and social skills. *Communication*, vol. 19, 16–23.

FRITH, U. 1985. The usefulness of the concept of unexpected reading failure. Comments on reading retardation revisited. *Brit. J. of Developmental Psychology*, vol. 3, 15–17.

FRITH, U., SNOWLING, M. 1985. How do autistic children read? *Communication*, vol. 19, no. 1, 3–8.

FRITH, U. 1986. (Psychologische aspekte des orthographischen wissens: entmicklung und entuicklungsstörung.) Psychological aspects of orthographic skills: development and disorder. (English and German). In *New trends in graphemics and orthography*. 218–233. W. Augst (editor). (Berlin: New York: Walter de Gruyter).

FURNHAM, A. (Editor.) 1986. *Social Behaviour in Context*. (Boston: Allyn and Bacon). 315 pp.

FURNHAM, A. (with Lewis, A.) 1986. *The Economic Mind: The Social Psychology of Economic Behaviour*. (Brighton: Harvester.) 292 pp.

FURNHAM, A. (with Angleitner, A. and van Heck, G.) (Editors.) 1986. *Personality Psychology in Europe*. (Leisse: Swets and Zeittinger.) 272 pp.

FURNHAM, A. 1985. The perceived value of small coins. *J. Soc. Psychol.*, vol. 125, 571–575.

FURNHAM, A. 1985. Why do people save? Attitudes to, and habits of, saving money in Britain. *J. App. Soc. psychol.*, vol. 15, 354–373.

FURNHAM, A. 1985. Attitudes to, and habits of gambling in Britain. *Pers. Indiv. Diffs.*, vol. 6, 493–502.

FURNHAM, A. 1985. The determinants of attitudes towards Social Security recipients. *Brit. J. Soc. Psychol.*, vol. 24, 19–27.

FURNHAM, A. 1985. Adolescents' sociopolitical attitudes: A study of sex and national differences. *Polit. Psychol.*, vol. 6, 621–636.

FURNHAM, A. 1985. Youth Unemployment. A review of the literature. *J. Adol.*, vol. 8, 109–124.

FURNHAM, A. 1985. Just world beliefs in an unjust society: a cross-cultural comparison. *Europ. J. Soc. Psychol.*, vol. 15, 363–366.

FURNHAM, A. 1986. Economic locus of control. *Hum. Relat.*, vol. 39, 29–43.

FURNHAM, A. 1986. Response bias, social desirability and dissimulation. *Pers. Indiv. Diffs.*, vol. 1, 385–400.

FURNHAM, A. (with Alibhai, N.) 1985. The friendship networks of foreign students. A replication and extension of the functional model. *Int. J. Psychol.*, vol. 20, 709–722.

FURNHAM, A. (with Alibhai, N.) 1985. Value differences in foreign students. *Int. J. Intcul. Relat.*, vol. 9, 365–375.

FURNHAM, A. (with Argyle, M. and Henderson, M.) 1985. The rules of different relationships. *Brit. J. Soc. Psychol.*, vol. 24, 125–139.

FURNHAM, A. (with Bochner, S. and Hutnik, M.) 1985. The friendship patterns of overseas and host students in an Oxford student residence. *J. Soc. Psychol.*, vol. 125, 689–694.

FURNHAM, A. (with Brewin, C.) 1986. Attributional versus preattributional variables in self-esteem and depression: A comparison and test of learned helplessness theory. *J. Pers. Soc. Psychol.*, vol. 50, 1013–1020.

FURNHAM, A. (with Davies, E.) 1986. The dieting and body shape concerns of adolescent females. *J. Child Psychol. Psychiat.*, vol. 27, 417–428.

FURNHAM, A. (with Gunter, B.) 1985. Androgyny and the perception of TV violence as perpetrated by males and females. *Human Relat.*, vol. 38, 535–549.

FURNHAM, A. (with Jaspars, J.) 1985. More confusion. *Pers. Indiv. Diffs.*, vol. 6, 513–514.

FURNHAM, A. (with Lewis, A.) 1986. Reducing unemployment: Lay beliefs about how to reduce current unemployment. *J. Econ. Psychol.*, vol. 7, 75–85.

FURNHAM, A. (with MacCarthy, B.) 1986. Patients' conceptions of psychological adjustment in the normal population. *Brit. J. Clin. Psychol.*, vol. 25, 43–50.

FURNHAM, A. (with Osborne, A.) 1986. Repression-sensitisation, self-image disparity and mental health. *Educ. Psychol. Meas.*, vol. 46, 125–133.

FURNHAM, A. (with Payne, M.) 1985. Explaining the causes of poverty in the West Indies: A cross-cultural comparison. *J. Econ. Psychol.*, vol. 6, 215–229.

FURNHAM, A. (with Schofield, S.) 1986. Sex-role stereotyping in British radio advertisements. *Brit. J. Soc. Psychol.*, vol. 25, 165–171.

FURNHAM, A., RAWLES, R. (with Johnson, C.) 1985. The determinants of beliefs in human nature. *Pers. Indiv. Diffs.*, vol. 6, 675–686.

GREEN, D. W. 1986. Control, activation and resource: a framework and a model for the control of speech in bilinguals. *Brain and Language*, vol. 27, 210–223.

HARVEY, N. 1985. Vocal control in singing: A cognitive approach. In *Musical Structure and Cognition*, 287–332. P. Howell, I. Cross and R. West (editors). (London: Academic Press).

HARVEY, N. 1985. Review of H. T. A. Whiteny (editor). *Human Motor Actions: Bernstein Reassessed. Ergonomics*, vol. 28, 1589–1593.

HOWARD, D. 1985. Introduction to 'On agrammatism' by Max Isserlin, 1922. *Cognitive Neuropsychology*, vol. 2, 303–307.

HOWARD, D. (with Campbell, R. and Droller, H.) 1985. (translators). M. Isserlin 'On agrammatism'. *Ibid.*, 308–345.

HOWARD, D., MORTON, J. (and others) 1985. The facilitation of picture naming in aphasia. *Ibid.*, 41–80.

HOWARD, D., MORTON, J. (and others) 1985. Treatment of word retrieval deficits in aphasia: a comparison of two therapy methods. *Brain*, 108, 817–829.

HOWARD, D. 1986. Beyond randomised controlled trials: the case for case studies of the effects of treatment in aphasia. *Brit. J. of Disorders of Communication*, vol. 21, 89–102.

HOWELL, P. (with Cross, I. and West, R. J.) (Editors.) 1985. *Musical Structure and Cognition.* (London and New York: Academic Press.) 338 pp.

HOWELL, P. (with Cross, I. and West, R. J.) 1985. Structural relations in the perception of musical pitch. *Ibid.*, 121–142.

HOWELL, P. 1985. Auditory feedback of the voice in singing. *Ibid.*, 259–286.

HOWELL, P. (with Cross, I. and West, R. J.) 1985. Pitch relations and the formation of scalar structure. *Music Perception*, vol. 3, 329–344.

HOWELL, P. (with Kyriacopoulos and Hamilton, A.) 1986. Automatic detection of repetitions and prolongations in stuttered speech. *Speech input/output; Techniques and applications, London, 24–26 March 1986*, 252–256.

HOWELL, P. (with Vause, L.) 1986. Acoustic analysis and perception of vowels in stuttered speech. *J. of the Acoustical Society of America*, vol. 79, 1571–1579.

JOHNSON, M. H. (with Horn, G.) 1985. Brain lesions, imprinting and operant learning. In *Brain plasticity, learning and memory*, 90–110. B. E. Will, P. Schmitt and J. C. Dalrymple-Alford (editors). (New York: Plenum Press).

JOHNSON, M. H. (with Bolhuis, J. J. and Horn, G.) 1985. Effects of early experience on the development of filial preferences in the domestic chick. *Developmental Psychobiology*, vol. 18, 299–308.

JOHNSON, M. H. (with Bolhuis, J. J. and Horn, G.) 1985. Interaction between acquired preferences and developing predispositions during imprinting. *Animal Behaviour*, vol. 33, 1000–1006.

KARMILOFF-SMITH, A. 1985. Stage/structure versus phase/process in modelling linguistic and cognitive development. In *Stage and Structure*, 164–190. I. Levin (editor). (New York: Ablex).

KARMILOFF-SMITH, A. 1985. Language and cognitive processes from a developmental perspective. *Language and Cognitive Processes*, vol. 1, no. 1, 60–85.

KARMILOFF-SMITH, A. 1985. A constructivist approach to modelling linguistic and cognitive development. *Archives de Psychologie*, vol. 53, 113–126.

KARMILOFF-SMITH, A. July 1985. BBC World Service. 'Tomorrow's child'.

KELVIN, P., JARRETT, J. 1985. *Unemployment: Its social psychological effects.* (Cambridge: Cambridge University Press; Paris: Editions de la Maison des Sciences de L'Homme). 149 pp.

LESLIE, A. M., FRITH, U. (with Baron-Cohen, S.) 1985. Does the autistic child have a 'theory of mind'? *Cognition*, vol. 21, 37–46.

LESLIE, A. M., FRITH, U. (with Baron-Cohen, S.) 1986. Mechanical, behavioural and intentional understanding of picture stories in autistic children. *Brit. J. of Developmental Psychology*, vol. 4, 113–125.

LONG, J. 1986. A framework for cognitive ergonomics. In *Contemporary Ergonomics 1986.* D. Osborne (editor), Durham, April 1986. (London and Philadelphia: P. Taylor and Francis.) 295–299.

LONG, J. (with Buckley, P.) 1986. Recommendations for optimising the design of videotex dialogues. *Ibid.*, 320–324.

LONG, J. (with Buckley, P.) 1985. Effects of system and knowledge variables on a task component of 'Teleshopping'. In *People and Computers: Designing the Interface.* P. Johnson and S. Cook (editors), East Anglia, September 1985. (Cambridge: Cambridge University Press.) 76–91.

LONG, J. 1986. The psychology of human-computer interaction. Review of Card, S., Moran, T. and Newell, A. *Quarterly J. of Experimental Psychology*. vol. 38(A) no. 1, 166–170.

McMANUS, I. C. 1985. Handedness, language dominance and aphasia: a genetic model. *Psychological Medicine, Monograph Supplement 8*, 1–40.

McMANUS, I. C. 1985. Writing hand position, birth stress, and familial factors. *Current Psychological Research and Reviews*, vol. 4, 195–203.

McMANUS, I. C. (Batheja, M.) 1985. Handedness in the mentally handicapped. *Developmental Medicine and Child Neurology*, vol. 27, 63–68.

McMANUS, I. C. (Edmondson, D., Rodger, J.) 1985. Balance in pictures. *Brit. J. Psychol.*, vol. 76, 311–324.

McMANUS, I. C. (Lockwood, D. N. J., Goldman, L. H.) 1985. Student audit of clinical teaching: a three-year study. *Brit. Med. J.*, vol. 291, 719–721.

McMANUS, I. C. (Lockwood, D. N. J., Goldman, L. H.) 1986. Clinical experience of clerks and dressers: a three-year study of Birmingham medical students. *Proc. of the Royal Society of Medicine*, vol. 79, 38–42.

McMANUS, I. C. (Lockwood, D. N. J., Goldman, L. H.) 1986. Surgical dressers: the theatre experience of junior clinical students. *Medical Education*, vol. 20, 216–221.

McMANUS, I. C. (Richards, P.) 1985. Prospective survey of performance of medical students during preclinical years. *Brit. Med. J.*, vol. 293, 124–127.

McMANUS, I. C. (Richards, P.) 1986. Admission for medicine in the United Kingdom: a structural model, *Medical Education*, vol. 20, 181–186.

MILLAR, W. S. 1985. The effect of proximal and distal feedback on the contingency learning of 6- and 12-month-old normal and perinatally compromised infants. *J. Child Psychol. Psychiat*, vol. 26, 789–800.

MORGAN, M. J. (with Aiba, T. S.) 1985. Positional acuity with chromatic stimuli. *Vision Res.*, vol. 25, no. 5, 689–695.

MORGAN, M. J. (with Watt, R. J.) 1985. A theory of the primitive spatial code in human vision. *Vision Res.*, vol. 25, no. 11, 1661–1674.

MORGAN, M. J. (with Aiba, T. S.) 1985. Vernier acuity predicted from changes in the light distribution of the retinal image. *Spatial Vision*, vol. 1, no. 2, 151–161.

MORGAN, M. J. (with Ward, R. M.) 1985. Spatial and spatial-frequency primitives in spatial-interval discrimination. *J. of the Optical Society of America A*, vol. 2, 1205–1210.

MORRIS, MARIA, SALMON, P., STEINBERG, HANNAH, SYKES, ELIZABETH, A. 1986. Aerobic fitness, endorphins and sensitivity to psychological stress. In *Sports Science: Proc. VIII Commonwealth and International Conf. on Sport, Physical Education, Dance, Recreation and Health*. J. Watkins, T. Reilly and L. Burwitz (editors), Glasgow 1986. 397–402.

MORTON, J. (with Bekerian, D. A. and Hammersley, R. H.) 1985. Headed records: a model for memory and its failures. *Cognition*, vol. 20, 1–23.

MORTON, J. 1985. The problem with amnesia: the problem with human memory. *Cognitive Neuropsychology*, vol. 2, no. 3, 281–290.

MORTON, J. (with Patterson, K.) 1985. From orthography to phonology: an attempt at an old interpretation. In *Surface Dyslexia: Neuropsychological and Cognitive Studies of Phonological Reading*. K. Patterson, J. C. Marshall and M. Coltheart (editors). (London: Lawrence Erlbaum).

OAKLEY, D. A. (Editor.) 1985. *Brain & Mind*. (London: Methuen). 265 pp.

OAKLEY, D. A. 1985. Cognition and imagery in animals. *Ibid.*, 99–131.

OAKLEY, D. A. 1985. Animal awareness, consciousness and self-image. *Ibid.*, 132–151.

OAKLEY, D. A. (with Eames, L. C.) 1985. The plurality of consciousness. *Ibid.*, 217–251.

OAKLEY, D. A. (with Eames, L. C.) 1985. Neocortex, hippocampus and performance in Lashley's Maze III. In *Brain Plasticity, Learning and Memory: Advances in Behavioural Biology*, vol. 28, 373–381. B. E. Will, P. Schmidt and J. C. Dalrymple-Alford (editors). (New York: Plenum).

RAWLES, R. E. 1985. Old chestnuts. Review of Robert Kail and James W. Pellegrino. *Human intelligence: perspectives and prospects. Times Higher Education Supplement*, vol. 678, no. 25, 1 November.

RAWLES, R. E. 1986. Formative years. Review of Raymond E. Fancher. *The intelligence men: makers of the IQ controversy. Times Higher Education Supplement*, vol. 700, no. 20, 4 April.

RAWLES, R. E. 17 April 1986. BBC External Services, Africa post.

SALMON, P. (with Gray, J. A.) 1985. Opposing acute and chronic behavioural effects of a beta-blocker, propranolol, in the rat. *Psychopharmacology*, vol. 86, 480–486.

SALMON, P. (with Stanford, C., Gray, J. A.) 1985. The effect of peripheral noradrenaline depletion on responding on a schedule of differential reinforcement of low rates of response (DRL). *Psychopharmacology*, vol. 87, 77–80.

SALMON, P. (with Gray, J. A.) 1985. Comparison between the effects of propranolol and chlordiazepoxide on timing behaviour in the rat. *Ibid.*, 219–224.

SALMON, P. (Gray, J. A.) 1986. Effects of propranolol on conditioned suppression, discriminated punishment and discriminated non-reward in the rat. *Psychopharmacology*, vol. 88, 252–257.

SALMON, P. (with Evans, R., Humphrey, D.) 1986. Anxiety and endocrine changes in surgical patients. *Brit. J. of Clinical Psychology*, vol. 25, 135–141.

SALMON, P. (and others) 1986. Psychological variables in the treatment of post-operative pain and oedema by therapeutic ultrasound. (Abstract) *J. Dent. Res.*, vol. 65, 494.

SANDLER, J. (with Bolland, J.) 1986. *L'Indice Psicoanalitico Hampstead.* (Rome: Boringhieri). 206 pp.

SANDLER, J. 1985. Towards a reconsideration of the psychoanalytic theory of motivation. *Bull. Anna Freud Centre*, vol. 8, 223–245.

SANDLER, J. (with Sandler, A.-M.) 1985. Vergangenheitsunbewusstes, Gegenwartsunbewusstes und die Deutung der Uebertragung. *Psyche*, vol. 39, 800–829.

SNOWLING, M. (Editor.) 1985. *Children's written language difficulties. Assessment and Management.* (Windsor: NFER-Nelson). 186 pp.

SNOWLING, M. 1985. The assessment of reading and spelling difficulties. *Ibid.*, 80–95.

SNOWLING, M., HOWELL, P. (with Goulandris, N., Bowlby, M.) 1986. Segmentation and speech perception in relation to reading skill: a developmental analysis. *J. of Experimental Child Psychology*, vol. 4, 489–507.

STANFORD, C. STEINBERG, HANNAH, SYKES, ELIZABETH, A., DAVIES, C. E. 1986. Backward walking unaccompanied by other components of the 5HT syndrome. *British Assoc. for Psychopharmacology, Summer meeting, Cambridge, July.*

STEINBERG, HANNAH 1985. Opium of the opiates. Review of Justin Picardie and Dorothy Wade *Heroin: Chasing the Dragon* & Valerie Curran and Susan Golombok *Bottling It Up. TES,* 15th November.

STEINBERG, HANNAH, STANFORD, C., SYKES, ELIZABETH, A., DAVIES, C. E. 1986. Anti-depressants and chlordiazepoxide cause backward walking. *Psychopharmacology*, vol. 89, 535.

STEINBERG, HANNAH, SYKES, ELIZABETH, A., 1985. Introduction to symposium on endorphins and behavioural processes: review of literature on endorphins and exercise. *Pharmacology, Biochemistry and Behaviour*, vol. 23, 857–865.

VINCENT, C. A. (with Richardson, P. H.) 1986. The evaluation of therapeutic acupuncture: Concepts and methods. *Pain*, vol. 24, 1–13.

VINCENT, C. A. (with Richardson, P. H.) 1986. Acupuncture for the treatment of pain: a review of evaluative research. *Ibid.*, 15–40.

WHITEFIELD, A. D. 1986. Human factors aspects of pointing as an input technique in interactive systems. *Applied Ergonomics*, vol. 17, no. 2, 97–104.

WOLFENDEN, K. (with Leung, C. H. C.) 1985. Estimating disc access patterns using different models. *Computer J.*, vol. 28, no. 4, 409–411.

WOLFENDEN, K. Analysis and Optimisation of data currency and consistency in replicated distributed databases. *Computer J.*, vol. 28, no. 5, 518–523.

STATISTICAL SCIENCE

BIRKHEAD, B. G., GREGORY, W. M. (and others) 1986. Evaluating and designing cancer chemotherapy using mathematical models. *European Journal of Cancer*, vol. 22, no. 1, 3–8.

BURRIDGE, J. (with Silvapulle, M. J.) 1986. Existence of maximum likelihood estimates in regression models for grouped and ungrouped data. *J.R. Statist. Soc. B*, vol. 48, no. 1, 100–106.

CONSONNI, G., DAWID, A. P. 1985. Decomposition and Bayesian analysis of invariant normal linear models. *Linear Algebra Appl.*, vol. 70, 21–49.

DAWID, A. P. 1985. Invariance and independence in multivariate distribution theory. *J. Mult. Anal.*, vol. 17, 304–315.

DAWID, A. P. 1985. Calibration-based empirical probability (with Discussion). *Ann. Statist.*, vol. 13, 1251–1285.

DAWID, A. P. 1986. A Bayesian view of statistical modelling. In *Bayesian Inference and Decision Techniques*, 391–404. P. K. Goel and A. Zellner (editors). (Amsterdam: Elsevier).

DAWID, A. P. (with Dickey, J. M. and Kadane, J. B.) 1986. Subjective-probability assessment methods for multivariate-t and matrix-t models. *Ibid.*, 177–195.

DONNELLY, P. J. (with Weber, N. C.) 1985. The Wright-Fisher model with temporally varying selection and population size. *J. Math. Biol.*, vol. 22, 21–29.

DONNELLY, P. J. 1985. Dual processes and an invariance result for exchangeable models in population genetics. *J. Math. Biol*, vol. 23, 103–118.

DONNELLY, P. J. 1986. The ages of alleles and a coalescent. *Adv. Appl. Prob.*, vol. 18, 1–19.

DONNELLY, P. J. 1986. A genealogical approach to variable population size models in population genetics. *J. Appl. Prob.*, vol. 23, 283–296.

GALBRAITH, R. F. (with Laslett, G. M.) 1985. Some remarks on statistical estimation in fission track dating. *Nucl. Tracks*, vol. 10, 361–363.

GREGORY, W. M. (and others) 1985. Normal values for the different classes of various blood mononuclear cells defined by monoclonal antibodies. *J. Clin. Pathol.*, vol. 38, 54–59.

GREGORY, W. M. (and others) 1986. Maintenance chemotherapy for anaplastic small cell carcinoma of the bronchus: a randomised, controlled trial. *Cancer Chemother. Pharmacol.*, vol. 17, 157–160.

GREGORY, W. M. (and others) 1986. Adult acute lymphoblastic leukaemia: a study of prognostic features and response to treatment over a ten-year period. *Br. J. Cancer*, vol. 53, 175–180.

ISHAM, V. S. 1986. Applications of semi-Markov processes: a miscellany. In *Semi-Markov models: Theory and Applications*. J. Janssen (editor). Brussels, June 1984. (New York: Plenum.) 453–462.

ISHAM, V. S. (with Cox, D. R.) 1986. The virtual waiting time and related processes. *Adv. Appl. Prob.*, vol. 18, 558–573.

STONE, M. 1985. Quetelet. In *The Social Science Encyclopaedia*, 677. A. and J. Kuper (editors). (London: Routledge and Kegan Paul).

STONE, M. 1985. Statistical Reasoning. *Ibid.*, 822–825.

ZOOLOGY AND CELL BIOLOGY

ABNEY, E. R., RAFF, M. C. (with Williams, B. P.) 1985. Macroglial cell development in embryonic rat brain: studies using monoclonal antibodies, fluorescence activated cell sorting, and cell culture. *Dev. Biol.*, vol. 112, 126–134.

ANDO, I., BEVERLEY, P. C. L., CRAWFORD, D. H., HARIRI, G., KISSONERGHIS, A-M., OWEN, M. J., WALLACE, D. 1985. Phorbol ester induced modulation of lymphocyte phenotype and function. In *Human T cell clones: a new approach to immune regulation*, 341–345. M. Feldmann, J. R. Lamb and J. N. Woody (editors). (New Jersey: Humana Press).

ANDO, I., CRAWFORD, D. H. (with Morgan, G., Levinsky, R. J.). 1986. A family study of the X-linked lymphoproliferative syndrome: evidence for a B cell defect contributing to the immunodeficiency. *Clin. exp. Immunol.*, vol. 63, 271–279.

ANDO, I., CRAWFORD, D. H., BEVERLEY, P. C. L. 1986. Phorbol ester induces changes in the pattern of cell surface molecules involved in CTL target cell interaction. In *Leucocyte Typing II*, vol. 1, 157–162. E. L. Reinherz *et al.* (editors). (Berlin: Heidelberg: Springer Verlag).

ANDO, I., CRAWFORD, D. H., KISSONERGHIS, A-M., OWEN, M. J., BEVERLEY, P. C. L. 1985. Phorbol ester-induced expression and function of the interleukin 2 receptor in human B lymphocytes. *Eur. J. Immunol.*, vol. 15, 341–344.

BELLAMY, A. S., CALDER, V. L., FELDMANN, M. (with Davison, A. N.) 1985. The distribution of interleukin-2 receptor bearing lymphocytes in multiple sclerosis: evidence for a key role of activated lymphocytes. *Clin. exp. Immunol.*, vol. 61, 248–256.

BERRY, R. J. 1985. *Natural History of Orkney*. (London: Collins New Naturalist).

BERRY, R. J. 1985. Response to the Warnock Committee Report. General Synod of the Church of England. *Personal Origins*. (London: C10). 58 pp.

BERRY, R. J. 1986. Controversies of Evolution. In *Animal Evolution*, 138–143. R. J. Berry and A. Hallam (editors). (London: Collins).

BERRY, R. J. 1986. Genetics of insular populations of mammals. In *Island Biogeography of mammals, (Biol. J. Linn. Soc.*, vol. 28, 1–251). L. R. Heaney and B. D. Patterson (editors). (London: Academic Press).

BERRY, R. J. 1985. Medical ethics and the potentialities of the living being. *Brit. Med. J.*, vol. 291, 901.

BERRY, R. J. 1985. Centric fusions in Scottish mice. *J. med. Genet*, vol. 22, 395.

BERRY, R. J. 1985. Evolutionary and ecological genetics of the bank vole and wood mouse. *Symp. zool. Soc. Lond.*, vol. 55, 1–31.

BERRY, R. J. 1986. Evolution and Creation: origin of man. *Epworth Review*, vol. 13, 74–85.

BERRY, R. J. 1986. What to believe about miracles. *Nature*, vol. 322, 321–322.

BERRY, R. J. 1986. Genetical processes in wild mouse populations. *Current Topics Microbiol. Immunol*, vol. 127, 86–94.

BERRY, R. J. (with Figueroa, F., Tichy, H., Klein, J.) 1986. MHC polymorphism in island populations of mice. *Ibid.*, 100–105.

BEVERLEY, P. C. L. 1985. The functional significance of the human E rosette receptor (CD2). In *Early Pregnancy Factors*, 93–104. F. Ellendorf and E. Koch (editors). (New York: Perinatology Press).

BEVERLEY, P. C. L. 1986. Monoclonal Antibodies. In *Methods in Haematology*, vol. 13, 247–269. (Edinburgh: Churchill Livingstone).

BEVERLEY, P. C. L. (with Lwin, K. Y., Zuccarini, O., Sloane, J. P.) 1985. An immunohistological study of leukocyte localisation in benign and malignant breast tissue. *Int. J. Cancer*, vol. 36, 433–438.

BEVERLEY, P. C. L. (with Revillard, J. P.) 1985. Role of cell surface molecules in T cell triggering. In *Immune Regulation*, 273–278. M. Feldmann and N. A. Mitchison (editors). (New York: Humana Press).

BEVERLEY, P. C. L. (and others) 1985. Phenotypic analysis of an established cell line derived from a patient with Hodgkin's disease (HD). Hematol. Oncol., vol. 3, 133–145.

BEVERLEY, P. C. L. (and others) 1986. A monoclonal antibody (UCHL1) that recognises normal and neoplastic T cells in routinely fixed tissues. *J. Clin. Path.*, vol. 39, 399–405.

BEVERLEY, P. C. L. (and others) 1986. Localization of interferons and interleukin 2 in polymyositis and muscular dystrophy. *Clin. exp. Immunol.*, vol. 63, 450–458.

BEVERLEY, P. C. L., O'FLYNN, K., WALLACE, D. L., LAMB, J. R. (with Boylston, A. W., Linch, D. C.) 1986. Regulation of activation and proliferation in T cells. In *Leucocyte Typing II*, vol. 1, 427–440. E. L. Reinherz *et al.* (editors). (Berlin, Heidelberg: Springer Verlag).

BYRNG, C. D., CHAPMAN, D. V., LAW, R. J., THAIN, J., WALDOCK, M. J., WEST, P. 1986. Methods of measuring the dispersion of a sewage sludge plume. *Wat. Sci. Tech.*, vol. 18, 306 (Abstract).

CHAIN, B., KAYE, P. 1986. Processing and presentation by dendritic cells – the role of the lysosome in antigen breakdown. In *Regulation of Immune Gene Expression*, 207–220. M. Feldmann and A. McMichael (editors). (New Jersey: Humana Press).

CHAIN, B., KAYE, P., FELDMANN, M. 1986. The cellular pathway of antigen presentation: biochemical and functional analysis of antigen processing in dendritic cells and macrophages. *Immunology*, vol. 58, 271–276.

CHAN, W. L. (with Lukic, M. L., Liew, F. Y.) 1985. Helper T cells induced by an immunopurified Herpes simplex virus type 1 (HSV-1) 115 kilodalton glycoprotein (gB) protect mice against HSV-1 infection. *J. Exp. Med.*, vol. 162, 1304–1318.

CHAPMAN, D. V. 1986. The distribution of metals in sewage sludge and their fate after dumping at sea. *Sci. Total Environ.*, vol. 48, 1–11.

COLLINS, M. K. L., KISSONERGHIS, A-M., DUNNE, M. J. (with Watson, C. J., Rigby, P. W. J.) 1985. Transcripts from an aberrantly rearranged human T-cell receptor β-chain gene. *EMBO J.*, vol. 4, 1211–1215.

COLLINS, M. K. L., KISSONERGHIS, A-M., DUNNE, M. J., OWEN, M. J. 1985. Molecular studies of the human T-cell antigen receptor. In *Human T-cell clones: a new approach to immune regulation*, 35–46. M. Feldmann, J. R. Lamb and J. N. Woody (editors). (New York: Humana Press).

COLLINS, M. K. L., KISSONERGHIS, A-M., OWEN, M. J. (and others) 1985. Regulation of T-cell receptor gene expression in human T-cell development. *Proc. Natl. Acad. Sci. USA.*, vol. 82, 4503–4507.

COLLINS, M. K. L., OWEN, M. J. (and others). 1985. The human T-cell receptor α-chain gene maps to chromosome 14. *Nature*, vol. 314, 273–274.

COLLINS, M. K. L., OWEN, M. J. 1985. *The T cell antigen receptor* (Review). *Biochem. J.*, vol. 230, 281–291.

DAVIS, S. J. D. 1984. Khirokitia and its mammal remains – a Neolithic Noah's Ark. in *A Fouilles recentes a Khirokitia (Chypre) 1977–1981*, vol. I, 147–162; vol. II, 164–179. Le Brun (editor). (Paris: Editions Recherche sur les Civilisations Memoire 41, Association pour la diffusion de la Pensee Francaise).

DAVIS, S. J. D. 1984. Breeds of dogs. *Cricket*, vol. 12, 14–17.

DAVIS, S. J. D. 1985. Tiny elephants and giant mice. *New Scientist*, vol. 105, 25–27.

DAVIS, S. J. D. 1985. A preliminary report of the fauna from Hatoula: a Natufian-Khiamian (PPNA) site near Latroun, Israel. *Les Cahiers du centre de Recherche Francais de Jerusalem*, vol. 1, 71–98.

DE PETRIS, S. (with Kanellopoulos, J. M., Leca, G., Crumpton, M.) 1985. The mitogenic lectin from *Phaseolus vulgaris* does not recognise the T3 antigen of human T lymphocytes. *Eur. J. Immunol.*, vol. 15, 479–486.

FELDMANN, M. 1985. Lymphokines and interleukins emerge from the primeval soup. *Nature.*, vol. 313, 351–352.

FELDMANN, M. (and others). 1985. Functional and serological analyses of products of antigen specific T-cell hybridomas. In *T-Cell Hybridomas*, 161–170. M. J. Taussig (editor). (U.S.A.: CRC Press).

FELDMANN, M. (and others). 1985. Can epithelial cells present surface auto-antigens? In *Immune Regulation*, 323–334. M. Feldmann and N. A. Mitchison (editors). (New Jersey: Humana Press).

FELDMANN, M. (and others) 1985. Augmentation of cell-mediated responses *in vitro* by a monoclonal anti-helper factor antibody. *Immunology*, vol. 54, 693–700.

FELDMANN, M. (and others) 1985. Interferon induces HLA DR expression by thyroid epithelium. *Clin. exp. Immunol.*, vol. 61, 265–273.

FELDMANN, M. (with Katz, D. R., Tees, R., Schreier, M. H.) 1986. Heterogeneity of accessory cells interacting with T-helper clones. *Immunology*, vol. 58, 167–172.

FELDMANN, M., LAMB, J. (and others). 1985. Functional expression of HLA-DP genes transfected into mouse fibroblasts. *Nature*, vol. 313, 61–64.

FELDMANN, M., ZANDERS, E. D., BEVERLEY, P. C. L., LAMB, J. R. 1985. Response of T-cells to synthetic peptide antigens: specific unresponsiveness analogous to tolerance. In *Human T cell clones: a new approach to Immune Regulation*, 301–307. M. Feldmann, J. R. Lamb, J. N. Woody (editors). (New York: Humana Press).

FISHER, R. C. 1986. George Salt and the development of experimental insect parasitology. *J. Ins. Physiol.*, vol. 32, no. 4, 249–253.

FISHER, R. C. (with Harrison, E. G., Ross, K. M.) 1985. The temporal effects of Dufour's gland secretion in host discrimination by *Nemeritis canescens*. *Ent. exp. et Appl.*, vol. 38, 215–220.

FISHER, R. C. (and others) 1985. The Hay meadows of the Picos de Europa, Asturias, Spain. *University College London, Discussion Papers in Conservation*, no. 43, 37 pp.

FISHER, R. C. (with Warren, A.) 1985. A quarter century of Conservation teaching. *University College London, Discussion Papers in Conservation*, no. 44, 30 pp.

FOX, H. 1985. Changes in amphibian skin during larval development and metamorphosis. In *Metamorphosis: 8th Symposium of the British Society for Development Biology*, 59–87. M. Balls and M. Bownes (editors). (Oxford: Clarendon Press).

FOX, H. 1986. The skin of the Amphibia. In *Biology of the Integument*, vol. 2, 78–135. J. Bereiter-Hahn, A. G. Matoltsy and K. S. Richards (editors). (Heidelberg: Springer).

FOX, H. 1985. Balancer fine structure of the *Pleurodeles* larva. *Acta Zool.* (Stockholm), vol. 66, 97–110.

FOX, H. 1986. Early development of caecilian skin with special reference to the epidermis. *J. Herpetol.*, vol. 20, 154–167.

FOX, H., WHITEAR, M., 1986. Genesis and regression of the figures of Eberth and occurrence of cytokeratin aggregates in the epidermis of anuran larvae. *Anat. Embryol.*, vol. 174, 73–82.

FREEMAN, R. B. 1985. Darwin in the Galapagos. In *Noticias de Galapagos* (no. 42), 15–16. (Ongar, Essex: The Charles Darwin Foundation for the Galapagos Isles).

FREEMAN, R. B. 1985. Various articles on Insects and Taxonomy. In *Oxford Illustrated Encyclopaedia* (vol. 2), *The Natural World*.

FREEMAN, R. B. 1985. Commentary. In Facsimile of *My First Reading Book*, 37 + 5. Wedgwood, E. (University College London).

FREEMAN, R. B. 1986. Consultant. *Oxford English Dictionary, Supplement* (vol. 4), Sc.-Z.

FREEMAN, R. B. 1986. Darwin in Chinese. *Arch. nat. Hist.*, vol. 13, 19–24.

FFRENCH-CONSTANT, C., MILLER, R. H., RAFF, M. C. (with Kruse, J., Schachner, M.) 1986. Molecular specialisation of astrocyte processes at nodes of Ranvier in rat optic nerve. *J. Cell. Biol.*, vol. 102, 844–852.

FFRENCH-CONSTANT, C., RAFF, M. C. 1986. Proliferating bipotential glial progenitor cells in adult rat optic nerve. *Nature*, vol. 319, 499–502.

GOLAY, J. T. (with Webster, A. D. B.) 1986. B. Cells in patients with X-linked and 'common variable' hypogammaglobulinaemia. *Clin. exp. Immunol.*, vol. 65, 100–104.

GOLAY, J. T., BEVERLEY, P. C. L. (with Clark, E. A.) 1985. The CD20 (Bp35) antigen is involved in activation of B cells from the G_0 to the G_1 phase of the cell cycle. *J. Immunol.*, vol. 135, 3795–3801.

GOLAY, J. T., RAWLE, F., BEVERLEY, P. C. L. 1986. B lymphocyte surface antigens involved in the regulation of immunoglobulin secretion. In *Leucocyte Typing II*, vol. 1, 463–472. E. L. Reinherz *et al.* (editors). (Berlin: Heidelberg: Springer Verlag).

GROEGER, B. K. (with Debbage, P. L.) 1985. Ricin binding in rat brain. In *Lectins*, vol. IV, 185–192. T. C. Bøg-Hansen and J. Breborowicz (editors). (Berlin, New York: Walter de Gruyter & Co.).

HYAMS, J., KING, C. A. 1985. Identification of proteins of the striated rootlet of *Tetrahymena* by immunofluorescence microscopy and immunoblotting with an anti-rootlet serum. *Eur. J. Cell Biol.*, vol. 38, 102–105.

ISOBE, K. I. (with Giguere, V., Grosveld, F.) 1985. Structure of the Murine Thy-1 gene. *EMBO J.*, vol. 4, no. 8, 2017–2024.

ISOBE, K. I., FORTUNATO, A., MITCHISON, N. A. (with Giguere, V., Grosveld, F.) 1985. Anti-Thy-1 antibody responses evoked by Thy-1 antigen expressed in transfected mouse mastocytoma cells and rat fibroblast. *Immunology*, vol. 56, 505–512.

JOHN, S., OWEN, M. J. 1985. The molecular biology of the antigen-specific T cell receptor. *Trends in Genetics*, vol. 1, no. 9, 261–264.

KING, C. A., BISHOP, C., MACIVER, S. 1986. The use of latex beads as an experimental probe for studying amoeboid locomotion. *Eur. J. Cell Biol.*, vol. 40 (suppl. 13), 10.

KING, C. A., DANIEL, B., DE ZOUCHE, C., HYAMS, J. 1986. Studies on gliding motility in eukaryote unicellular organisms. *Ibid.*, 11.

KING, C. A., WHITEHEAD, C., PRINGLE, N., COOPER, L., BAINES, I. 1986. Motility of protozoan gregarines – a model for studying mechanochemical force transduction at the cell surface. *Cell Motility and Cytoskeleton*, vol. 6, 243.

LAMB, J. R. (and others) 1985. Cloned HLA-D genes: characterisation and approaches to expression and analysis of function. In *Human T-cell clones: a new approach to Immune Regulation*, 49–57. M. Feldmann, J. R. Lamb and J. N. Woody (editors). (New Jersey: Humana Press).

LAMB, J. R. (with Mitchell, D. M., McMichael, A. J.) 1985. The immunology of influenza. *Brit. Med. Bull.*, vol. 41, no. 1, 80–85.

LAMB, J. R., BEVERLEY, P. C. L., FELDMANN, M., ZANDERS, E. D. 1985. Antigen-T lymphocyte interactions in the induction of functional unresponsiveness. In *Human T-cell clones: a new approach to Immune Regulation*, 309–315. M. Feldmann, J. R. Lamb and J. N. Woody (editors). (New Jersey: Humana Press).

LAMB, J. R., FELDMANN, M. (with Acres, R. B.) 1985. Effects of platelet-derived growth factor and epidermal growth factor on antigen induced proliferation of human T-cell lines. *Immunology*, vol. 54, 9–16.

LAMB, J. R., FELDMANN, M. (with Green, N., Lerner, R. A., Zanders, E. D.) 1985. Antigen recognition by human influenza virus specific helper T-lymphocyte clones. In *Human T-cell clones: a new approach to Immune Regulation*, 117–124. M. Feldmann, J. R. Lamb and J. N. Woody (editors). (New Jersey: Humana Press).

LAMB, J. R., GOLAY, J. T., BEVERLEY, P. C. L., FELDMANN, M. (and others) 1985. Regulation of B-lymphocyte function by human T-lymphocyte clones. In *Lymphokines*, vol. 10, 57–87. M. H. Schreier and K. A. Smith (editors). (New York: Academic Press).

LAMB, J. R., ZANDERS, E. D. 1985. The induction of antigen specific unresponsiveness in cloned T lymphocytes. In *Immune Regulation*, 51–59. M. Feldmann and N. A. Mitchison (editors). (New Jersey: Humana Press).

LAMB, J. R., ZANDERS, E. D., FELDMANN. M. (with Woody, J. N.) 1985. Antigen-specific T-cell helper factors. In *Human T-cell clones: a new approach to Immune Regulation*, 361–368. M. Feldmann, J. R. Lamb and J. N. Woody (editors). (New Jersey: Humana Press).

LATCHMAN, D. S., LA THANGUE, N. B. (with Rose, D. S. C., Shriver, K.) 1986. A filamentous distribution for the Herpes simplex virus type-2 encoded major DNA binding protein. *J. Gen. Virol.*, vol. 67, 1315–1325.

LA THANGUE, N. B. (with Macnab, J. C. M., Orr, A.) 1985. Cellular proteins expressed in Herpes simplex virus transformed cells also accumulate on herpes simplex virus infection. *EMBO J.*, vol. 4, no. 12, 3223–3228.

LA THANGUE, N. B., CHAN, W. L. (with Kennedy, P. G. E., Clements, G. B.) 1985. Cultured human neural cells accumulate a heat–shock protein during acute Herpes simplex virus infection. *Neuroscience Letters.*, vol. 61, 321–326.

LONDEI, M., FELDMANN, M. (with Bottazzo, G. F.) 1985. Cloning of auto-immune T-cells: implications for pathogenesis and therapy. In *Human T-cell clones: a new approach to Immune Regulation*, 239–250. M. Feldmann, J. R. Lamb and J. N. Woody (editors). (New Jersey: Humana Press).

LONDEI, M., FELDMANN, M. (with Bottazzo, G. F.) 1985. Human T-cell clones from auto-immune thyroid glands: specific recognition of autologous thyroid cells. *Science*, vol. 228, 85–89.

MACIVER, S., KING, C. A. 1986. Evidence for a role for phosphatidyl inositol in the motility of *Naegleria gruberi* amoebae. *Eur J. Cell Biol.*, vol. 40 (suppl. 13), 12.

MILLER, R. H., DAVID, S., PATEL, R. ABNEY, E. R., RAFF, M. C. 1985. A quantitative immunohistochemical study of macroglial cell development in the rat optic nerve: *in vivo* evidence for two distinct astrocyte lineages. *Dev. Biol.*, vol. 111, 35–41.

MITCHISON, N. A. 1985. Epitopes and recognition, especially T-cell. In *Investigation and Exploitation of Antibody Combining Sites*, xx–xxi. E. Reid, G. M. W. Cook and D. J. Moore (editors). (Plenum Pub. Corp.).

MITCHISON, N. A. 1985. Immune Surveillance. *Ibid.*, 335.

MITCHISON, N. A. 1985. Four intermediate concentration proteins and their messages for self-tolerance, auto-immunity, and suppressor epitopes. *Clinical Immunology Newsletter*, vol. 6, no. 1, 12–14.

MITCHISON, N. A. 1985. Suppressor T cells in the network. *Nature* (News and Views), vol. 316, 676–677.

MITCHISON, N. A. 1986. Antigen binding and T-cells. *Nature* (News and Views), vol. 320, 106–107.

MITCHISON, N. A., GRIFFITHS, J. A., OLIVEIRA, D. B. G. 1986. Immunogenetics of Suppression. In *Perspectives in Immunosuppression*, 21–29. P. Jacobs and C. Macpherson (editors). (Cape Town: Scherag (Pty.) Ltd.).

MITCHISON, N. A., GRIFFITHS, J. A., OLIVEIRA, D. B. G. 1986. Immunogenetics of suppression. *BJCP*, vol. 40, 225–229.

MOSS, F. M., ARMITAGE, R. J. (with Lai, A. P., Cawley, J. C.) 1985. Bone marrow macrophages and megakaryocytes express common acute lymphoblastic leukaemia antigen. *Leukaemia Research*, vol. 9, 1155–1159.

MOSS, F., BEVERLEY, P. C. L. (with Taylor-Papadimitriou, J., Burchell, J.) 1985. Monoclonal antibodies to epithelial membrane antigen and human milk fat globule mucin define epitopes expressed on other molecules. *Lancet*, vol. 23, 458.

MOSS, F. M., ROWE, D., BEVERLEY, P. C. L., ADDIS, B.., SOUHAMI, R. L. (with Bobrow, L. G., Sheppard, M. N., Griffiths, M.) 1986. Expression of epithelial and neural antigens in small cell and non small cell lung carcinoma. *J. Path.*, vol. 149, 103–111.

NEW, H. V., MUDGE, A. W. 1986. Distribution and ontogeny of SP, CGRP, SOM, and VIP in chicken sensory and sympathetic ganglia. *Dev. Biol.*, vol. 116, 337–346.

O'FLYNN, K., ANDO, I., WALLACE, D. L., BEVERLEY, P. C. L. (with Russul-Saib, M., Boylston, A. W., Linch, D. C.) 1986. Different pathways of human T-cell activation revealed by PHA-P and PHA-M. *Immunology*, vol. 57, 55–60.

O'FLYNN, K., BEVERLEY, P. C. L. (with Krensky, A. M., Burakoff, S. J., Linch, D. C.) 1985. Phytohaemagglutinin activation of T-cells through the sheep red blood cell receptor. *Nature*, vol. 313, 686–687.

O'FLYNN, K., BEVERLEY, P. C. L. (with Linch, D. C.) 1986. The influence of anti-T cell monoclonal antibodies on calcium mobilization: investigation of workshop antibodies. In *Leucocyte Typing II*, vol. 1, 205–212. E. L. Reinherz *et al.* (editors). (Berlin, Heidelberg: Springer Verlag).

O'FLYNN, K. BEVERLEY, P. C. L. (and others). 1986. CD2 and CD3 antigens mobilize Ca^{2+} independently. *Eur. J. Immunol.*, vol. 16, 580–584.

O'FLYNN, K. ZANDERS, E. D., LAMB, J. R., BEVERLEY, P. C. L., WALLACE, D. L. (with Tatham, P. E. R., Tax, W. J. M., Linch, D. C.) 1985. Investigation of the effect of early T-cell activation: analysis of the effect of specific antigen. IL-2 and monoclonal antibodies on intracellular free calcium concentration. *Eur. J. Immunol.*, vol. 15, 7–11.

OLIVEIRA, D. B. G. 1986. Bulk immunopurification and development of a radioimmunoassay for human and murine F liver protein. *J. Immunol. Method*, vol. 91, 99–105.

OLIVEIRA, D. B. G. (with Blackwell, N., Virchis, A. E., Axelrod, R. A.) 1985. T helper and T suppressor cells are restricted by the A and E molecules, respectively, in the F antigen system. *Immunogenetics*, vol. 22, 169–175.

OWEN, M. J. (with Frelinger, J. G.) 1985. Control of MHC gene expression. In *Immune Regulation*, 79–80. M. Feldmann and N. A. Mitchison (editors). (New York: Humana Press).

OWEN, M. J., COLLINS, M. K. L., KISSONERGHIS, A. M., DUNNE, M. J., JOHN, S. 1986. Organisation and expression of human T cell receptor genes. In *Regulation of Immune Gene Expression*, 143–153. M. Feldmann and A. McMichael (editors). (New Jersey: Humana Press).

OWEN, M. J., JENKINSON, E. J. WILLIAMS, G. T., KINGSTON, R., OWEN, J. T. 1986. An investigation of T cell receptor gene rearrangement and expression in organ cultures of normal embryonic thymus and Thyl+ cells of nude mice. *Eur. J. Immunol.*, vol. 16, 875–887.

OWEN, M. J., KINNON, C. 1985. The mechanism of intracellular transport and surface expression of MHC antigens. In *P and S Biomedical Sciences Symposia: Cell Biology of the Major Histocompatibility Complex*, 195–215. H. J. Vogel and B. Pernis (editors). (London: Academic Press).

PATEL, R., CHAN, W. L., KEMP, L. M., LA THANGUE, N. B., LATCHMAN, D. S. 1986. Isolation of cDNA clones derived from a cellular gene transcriptionally induced by Herpes simplex virus. *Nucleic Acids Res.*, vol. 14, 5629–5640.

PEMBERTON, J. M. (with Smith, R. H.) 1985. Lack of biochemical polymorphism in British fallow deer. *Heredity*, vol. 55, 199–207.

PERKINS, K. A., CHAIN, B. M. 1986. Presentation of peritoneal macrophages: modulation by antibody-antigen complexes. *Immunology*, vol. 58, 304–402.

PRESTON, T. M. (with Davies, D. H.) 1985. The behaviour of insect plasmatocytes *in vitro*: changes in morphology during settling, spreading and locomotion. *J. Exp. Zool.*, vol. 236, 71–82.

RAFF, M. C., ABNEY, E. R. (with Fok-Seang, J.) 1985. Reconstruction of a developmental clock *in vitro*: a critical role for astrocytes in the timing of oligodendrocyte differentiation. *Cell*, vol. 42, 61–69.

RATCLIFFE, M. J. H. 1985. The ontogeny and cloning of B-cells in the bursa of Fabricius. *Immunology Today*, vol. 6, 223–227.

RATCLIFFE, M. J. H. 1985. Ontogeny of pre-B cells in the hatched chicken. *Immunology Today* (Letters), vol. 6, 349–350.

RATCLIFFE, M. J. H. (with Lassila, O., Pink, J. R. L., Vainio, O.) 1986. Avian B cell precursors: surface immunoglobulin expression is an early, possibly bursa-independent event. *Eur. J. Immunol.*, vol. 16, 129–133.

RATCLIFFE, M. J. H. (with Pink, J. R. L., Vainio, O.) 1985. Immunoglobulin bearing stem cells for clones of B (bursa-derived) lymphocytes. *Eur. J. Immunol.*, vol. 15, 617–620.

RAWLE, F. C., ILIESCU, V., MERKENSCHLAGER, M., BEVERLEY, P. C. L. (with Shields, J., Smith, S. H., Callard, R. E.) 1986. B-cell growth and differentiation factors secreted by transformed epithelial cell lines. *Eur. J. Immunol.*, vol. 16, 1017–1019.

RICHARDSON, W. D. (with Roberts, B. L., Smith, A. E.) 1986. Nuclear location signals in polyoma virus large-T. *Cell*, vol. 44, 77–85.

SIGFUSSON, A., BABBAGE, J. W., SOUHAMI R. L. 1985. Defective *in vitro* antibody production response to pokeweed mitogen and influenza antigen in patients with Hodgkin's disease. *Clin. exp. Immunol.*, vol. 60, 396–402.

SMITH, K. G. C., HARIRI, G., BEVERLEY, P. C. L., MORRIS, P. J. (with Austyn, J. M.) 1986. T cell activation by anti-T3 antibodies: comparison of IgG1 IgG2b switch variants and direct evidence for accessory function of macrophage Fc receptors. *Eur. J. Immunol.*, vol. 16, no. 5, 478–486.

SMITH, S. H., ROWE, D., BEVERLEY, P. C. L. (with Brown, M. H., Callard, R. E.) 1986. Functional subsets of human helper-inducer cells defined by a new monoclonal antibody, UCHL1. *Immunology*, vol. 58, 63–70.

SUTHERLAND, S., CHAN, W. L. (with Mindel, A., Morgan, B.) 1986. Typing and subtyping of Herpes simplex isolates by monoclonal fluorescence. *J. Med. Virol.*, vol. 18, 235–245.

TEMPLE, S., RAFF, M. C. 1986. Clonal analysis of oligodendrocyte developlment in culture: evidence for a developmental clock that counts cell division. *Cell*, vol. 44, 773–779.

WHITEAR, M. 1986. The skin of fishes including cyclostomes. In *Biology of the Integument*, vol. 2, *Vertebrates*, 8–64. J. Bereiter-Hahn, A. G. Matoltsy and K. S. Richards (editors). (Berlin, Heidelberg, New York, Tokyo: Springer-Verlag).

WHITEAR, M. (with Kotrschal, K., Goldschmid, A., Adam, H.) 1985. The first dorsal fin of *Gaidropsarus mediterraneus* (Teleostei), a specialized chemosensory organ. *Fortschr. Zool.*, vol. 30, 727–730.

ZANDERS, E. D., FELDMANN, M., O'FLYNN, K., COCKROFT, S., LAMB, J. R. 1985. Early biochemical events in T lymphocytes activated by anti T3. In *Human T-cell clones: a new approach to Immune Regulation*, 209–217. M. Feldmann, J. R. Lamb and J. N. Woody (editors). (New York: Humana Press).

FACULTY OF ENGINEERING

CHEMICAL AND BIOCHEMICAL ENGINEERING

AYAZI SHAMLOU, P. (with Edwards, M. F.) 1985. Power consumption of helical ribbon mixers in viscous Newtonian and non-Newtonian fluids. *Chem. Engng Sci.*, vol. 40, 1773–1781.

AYAZI SHAMLOU, P., KOUTSAKOS, E. 1986. Solids suspension in mechanically agitated systems. In *Proc. 5th European Conf. on Mixing, Toulouse, France, 11–12 June 1986*, vol. 3, 9–17.

BROOKES, I. K., LILLY, M. D. (with Drozd, J. W.) 1986. Stereospecific hydrolysis of *d,l-menthyl* acetate by *Bacillus subtilis*: mass transfer-reaction interactions in a liquid–liquid system. *Enzyme Microb. Technol.*, vol. 8, 53–57.

BUDZ, J., JONES, A. G., MULLIN, J. W. 1986. Effect of selected impurities on the continuous precipitation of calcium sulphate (gypsum). *J. Chem. Tech. Biotechnol.*, vol. 36, 153–161.

CHAN, M. Y. Y., HOARE, M., DUNNILL, P. 1986. The kinetics of protein precipitation by different reagents. *Biotechnol. Bioengng*, vol. 28, 387–393.

DEVEREUX, N., HOARE, M. 1986. Membrane separation of protein precipitates: Studies with cross flow in hollow fibres. *Biotechnol. Bioengng*, vol. 28, 422–431.

DEVEREUX, N., HOARE, M., DUNNILL, P. 1986. Membrane separation of protein precipitates: Unstirred batch studies. *Ibid.*, 88–96.

GIBILARO, L. G., DAVIES, S. N. (with Cooke, M., Lynch, P. M., Middleton, J. C.) 1985. Initial response analysis of mass transfer in a gas sparged stirred vessel. *Chem. Engng Sci.*, vol. 40, 1811–1816.

GIBILARO, L. G., DI FELICE, R., WALDRAM, S. P. 1985. Generalized friction factor and drag coefficient correlations for fluid–particle interactions. *Ibid.*, 1817–1823.

GIBILARO, L. G., DI FELICE, R., WALDRAM, S. P. (with Foscolo, P. U.) 1985. The effect of interparticle forces on the stability of fluidized beds. *Ibid.*, 2379–2381.

GIBILARO, L. G., DI FELICE, R., WALDRAM, S. P. (with Foscolo, P. U) 1986. A predictive model for the equilibrium composition and inversion of binary–solid liquid fluidized beds. *Ibid.*, vol. 41, 379–387.

GIBILARO, L. G., HOSSAIN, I., WALDRAM, S. P. 1985. On the Kennedy and Bretton model for mixing and segregation in liquid fluidized beds. *Ibid.*, vol. 40, 2333–2338.

GIBILARO, L. G., WALDRAM, S. P., DI FELICE, R. (with Foscolo, P. U.) 1986. The application of a particulate model to fluidisation dynamics. In *Fluidization V,* K. Østergaard and A. Sørensen (editors), Elsinore, Denmark, May 1986. (New York: Engineering Foundation.) 9–16.

GLATZ, C. E., HOARE, M., LANDA-VERTIZ, J. 1986. The formation and growth of protein precipitates in a continuous stirred-tank reactor. *AIChE J.*, vol. 32, 1196–1204.

HARBRON, S., SMITH, B. W., LILLY, M. D. 1986. Two-liquid phase biocatalysis: epoxidation of 1,7-octadiene by *Pseudomonas putida*. *Enzyme Microb. Technol.*, vol. 8, 85–88.

HOFFMANN, A. C., YATES, J. G. 1986. Experimental observations of fluidized beds at elevated pressures. *Chem. Eng. Commun.*, vol. 41, 133–149.

JONES, A. G., ROWE, P. N., GRAVESTOCK, N. 1985. An X-ray study of particulate solids flow in a cylindrical bunker. *Powder Technol.*, vol. 45, 83–86.

KLOOSTERMAN ÏV, J., LILLY, M. D. 1985. Maintenance and operational stability of immobilized *Arthrobacter simplex* for the Δ^1-dehydrogenation of steroids. *Enzyme Microb. Technol.*, vol. 7, 377–382.

LILLY, M. D. 1986. Recommendations for nomenclature to describe the metabolic behaviour of immobilized cells (EFB Working Party on Immobilized Biocatalysts Recommendations). *Enzyme Microb. Technol.*, vol. 8, 315.

LILLY, M. D., WOODLEY, J. M. 1985. Biocatalytic reactions involving water-insoluble organic compounds. In *Biocatalysts in Organic Syntheses*, J. Tramper, H. C. van der Plas and P. Linko (editors), The Netherlands, April 1985. (Amsterdam: Elsevier.) 179–192.

MULLIN, J. W. 1985. Famous men remembered – M. B. Donald. *The Chem. Engr*, no. 416, 62–63.

MULLIN, J. W. 1986. Barbaric standard broached, *Ibid.*, no. 422, 41.

ROWE, P. N. 1985. Comment on minimum fluidizing velocity of coal-derived chars at elevated temperatures. *Chem. Engng Sci.*, vol. 40, 2003.

TALBOYS, B. L., DUNNILL, P. 1985. Effect of shear on membrane-associated enzymes: Studies of isolated progesterone 11α-hydroxylase complex from *Rhizopus nigricans*. *Biotechnol. Bioengng*, vol. 27, 1726–1729.

TALBOYS, B. L., DUNNILL, P. 1985. Effect of shear membrane-associated enzymes: Studies of the release of intracellular protein and of the progesterone 11α-hydroxylase complex from *Rhizopus nigricans*. *Ibid.*, 1730–1734.

TAYLOR, G. HOARE, M. (with Gray, D. R., Marston, F. A. O.) 1986. Size and density of protein inclusion bodies. *Bio/technology*, vol. 4, 553–557.

WALDRAM, S. P., BOWER, P. E. 1985. A simple closed-form expression for the geometric correction factor for the Weisz diffusivity cell. *J. of Catalysis*, vol. 94, 303–305.

WALDRAM, S. P., ELSON, T. P. 1986. The reality of a Teaching Company Scheme. *The Chem. Engr*, no. 423, 44–46.

WISDOM, R. A., DUNNILL, P., LILLY, M. D. 1985. Enzymic interesterification of fats: the effect of non-lipase material on immobilized enzyme activity. *Enzyme Microb. Technol*, vol. 7, 567–572.

YATES, J. G., Modelling fluidized-bed reactors. In *Advances in Transport Processes*, vol. 7, 49–87, L. K. Doraiswamy (editor). (New Delhi: Wiley Eastern).

YATES, J. G., BEJCEK, V., CHEESMAN, D. J. 1986. Jet penetration into fluidized beds at elevated pressures. In *Fluidization V*, K. Østergaard and A. Sørensen (editors), Elsinore, Denmark, May 1986. (New York: Engineering Foundation.) 79–86.

YATES, J. G., NEWTON, D. 1986. Fine particle effects in a fluidized-bed reactor. *Chem. Engng Sci.*, vol. 41, 801–806.

ELECTRONIC AND ELECTRICAL ENGINEERING

BAILEY, A. H. DARBYSHIRE, D. A., OVERBURY, A. P., PITT, C. W. (with Newton, J.) 1986. Plasma deposition of metal oxide films for integrated optics. *Vacuum*, vol. 36, nos. 1–3, pp. 139–142.

BOYD, I. W. 1985. Laser assisted formation of silicon dioxide films. *Invited Review at International Conference on 'Laser Assisted Modifications & Synthesis of Materials' S. Metev, Sofia University, 10–17 March*, 105–119.

BOYD, I. W. (with Boggess, T. F., Smirl, A. L., Bohnert, K., Mansour, K., Moss, S. C.) 1985. Dynamic picosecond reflectivity studies of highly optically-excited crystalline silicon, *SPIE*, vol. 540. Southwest Conference on Optics, 140–145.

BOYD, I. W. (with Boggess, T. F., Smirl, A. L., Moss, S. C.) 1986. Dynamic picosecond studies of optically excited silicon. *Optica Acta*, vol. 33, no. 4, 527–534.

BOYD, I. W. (with Smirl, A. L., Boggess, T. F., Moss, S. C., Bohnert, K., Mansour, K.) 1986. Application of nonlinear optical properties and melt dynamics of crystalline silicon to optical properties and melt dynamics of crystalline silicon to optical limiting of 1 micrometer picosecond radiation. *Optical Engineering*, vol. 25, no. 1, 157–165.

BOYD, I. W. (with Boggess, T. F., Bohnert, K. M., Mansour, K., Moss, S. C., Smirl, A. R.) 1986. Simultaneous measurement of the two-photon coefficient and free-carrier cross section above the bandgap of crystalline silicon. *IEEE Journal of Quantum Electronics.*, vol. QE-22, no. 2, 360–368.

BOYD, I. W. 1986. Two-photon IR absorption coefficient of GaAs, *Properties of GaAs*, Emis Datareviews No. 2, IEE, London.

BOYD, I. W., MITCHELL, F. 1986. Microfabrication of thin films, *Nature*, vol. 321.

BOYD, I. W. 1986. Photoformation of Silicon Dielectrics. *E-MRS*, 229–242.

BURNETT, T. D. 1986. A parallel reduction architecture. *IFIP Conference on Highly Parallel Computers, Nice, France, March.*

COLE, R. S. 1986. Amplitude and Phase Scintillations in the oxygen absorption region. *International Conf. on Optical and millimeter wave propagation and scattering in the atmosphere, Florence, Italy, 27–30 May*, 157–160.

CVETKOVIC, S. R., DAVIES, J. B. 1986. Self-Adjoint vector variational formulation for lossy anisotropic dielectric waveguide. *IEE Transactions on Microwave Theory and Techniques*, vol. MTT-34, no. 1.

DARBYSHIRE, D. A., OVERBURY, A. P., PITT, C. W. 1986. Ion and plasma assisted etching of holographic gratings. *Vacuum*, vol. 36, nos. 1–3, pp. 55–60.

DAVIES, D. E. N. (with Kingsley, S. A.) 1985. OFDR Diagnostic for fiber/integrated optic systems and high resolution distributed fiber optic sensing. *Proc. SPIE Fiber Optic and Laser Sensors III, San Diego, California, August 20–23 1985*, vol. 566, 265–275.

DAVIES, D. E. N. 1985. Optical Fibre distributed sensor and sensor networks. *Proc. 2nd International Symposium on Optical and Electro-Optical Applied Science and Engineering, 25–29 November 1985, Cannes.* (SPIE), 52–57.

DAVIES, D. E. N., BEDDOW, D. M., The application of Optical Fibre Signal Processing to BW Systems. *Conference Proceedings MM86, 24–26 June 1986, Brighton.* 303–308.

DAVIES, D. E. N. (with Economou, G., Arora, K.) 1986. Generation of r.f. and microwave signals from low-frequency square-wave modulation of laser diode. *Optical and Quantum Electronics*, vol. 18, 93–96.

ERASME, D., WILSON, M. G. F. 1986. Analysis and optimization of integrated-optic travelling-wave modulators using periodic and non-periodic phase reversals. *Optical and Quantum Electronics*, vol. 18, 203–211.

GILES, I. P. 1985. Feasibility of a heterodyne all-fibre optical gyroscope. *IEE Proc.*, pt. J, vol. 132, no. 5, 265–270.

GILES, I. P. (with Mackintosh, J., Bulshaw, B.) 1985. Optical fibre gyroscopes in high performance systems. *DGON '85 Sym. on Gyro. Tech., Stuttgart.*

GILES, I. P. (with McMillan, J., Mackintosh, J., Culshaw, B.) 1985. *Cannes Opt. Fib. Sensors Conference, SPIE Proc. 586.*

GILES, I. P. (Mackintosh, J., McMillan, J., Culshaw, B) 1986. Coherent backscatter-induced drift in phase-modulated optical fibre gyroscopes, *Elec. Letts.*, vol. 22, no. 9, 494–496.

GRIFFITHS, H. D. (with Rapley, C. G.) 1986. Swath altimetry of oceans and terrain, *Proc. Workshop V, XXVI COSPAR Conference, Toulouse, 30 June–11 July.*

GUY, C. G. 1986. IT Conversion Courses – Answering the skills shortage? *Electronics and Power*, 215–216.

MEDEIROS FILHO, F. C., SILVA MELLO, L. A. R., COLE, R. S., 1986. A new model for millimeter wave amplitude fluctuation distribution in an absorption band. *1986 International IEEE/AP-S Symposium and National Radio Science Meeting, Philadelphia, PA, 8–13 June.* 225–228.

MIDWINTER, J. E. 1985. Current Status of Opical Communications Technology. *J. of Lightwave Technology*, vol. LT-3, no. 5, 927–930.

MIDWINTER, J. E., HAILEY, J. M. 1986. Thermo-optic bistable devices: theory of operation in freestanding films. *Optical and Quantum Electronics*, vol. 18, 57–72.

MIDWINTER, J. E. 1985. 'Light' electronics, myth or reality? *IEE Proceedings*, vol. 132, pt. J, no. 6, 371–383.

PETRUCCI, M., PITT, C. W. 1986. Reflection High-Energy Electron Diffraction from Lithium Niobate Single-Crystal Surfaces for Application in Molecular Beam Epitaxy, *Electronics Letters*, vol. 22, no. 12, 637–639.

PITT, C. W. 1985. Molecular beam epitaxy of oxide crystals, *B.A.C.G., Annual Conference, Brighton, 24–27 September.*

SAKAI, I., PARRY, G., YOUNGQUIST, R. C. 1986. Multiplex fiber-optic sensors by frequency modulation: cross-term considerations. *Optical Society of America, Optics Letters*, vol. 11, 183.

SARMA, A. D., COLE, R. S., SIQUEIRA, G. L., SILVA MELLO, L. A. R., MEDEIROS FILHO, F. C. 1986. Theoretical and experimental investigation of millimetre wave phase fluctuations in an absorption region. *International Journal of Infrared and Millimeter Waves*, vol. 7, 785–793.

SEE, C. W., VAEZ IRAVANI, M., WICKRAMASINGHE, H. K. 1985. Scanning differential phase contrast optical microscope-applications to surface studies. *Appl. Optics*, vol. 24, no. 15, 2373–2379.

SHEEHAN, P. G., FORREST, J. R. 1986. Satellite-borne active phased array techniques for mobile communications. *IEE Proceedings*, vol. 133, pt. F, no. 4, 339–344.

SMITH, M. S., HOQUE, M., DAVIES, D. E. N. 1985. Measurement of the microwave reflection characteristics of carbon fibre materials using a very compact configuration, *Proc. ISAP Kyoto, Japan, 20–22 August*, 197–199.

SMITH, M. S. (with Sole, G. C.) 1985. Design and performance of a three-dimensional Rotman lens for a planar antenna array, *Ibid.*, 369–372.

SMITH, M. S., CALMAN, L. C. 1985. Prediction and measurement of near fields for antennas on structures. *JIERE*, vol. 55, 407–414.

SMITH, M. S., MUSA, L. 1986. Microstrip Rotman lens port design. *IEEE AP-S Int. Symp. Digest*, 899–902.

SMITH, M. S., PEARSON, R. A., EL-SHIRBINI, E. 1986. Electronic beam scanning using an array fed dual offset reflector antenna, *IEE AP-S Int. Symp. Digest*, 263–266.

SMITH, M. S. 1986. Rotman lens multiple beamformers. In *Military Microwaves Conf. Proc. 24–26 June, Brighton*, 279–283.

SOMEKH, M. 1985. Modelling the response of the reflection acoustic microscope with structural variation in the specimen. In *Proc. 1985 IEEE Ultrasonics Symposium, San Francisco, 16–18 October*, vol. II, 731–735.

SOMEKH, M. (with Bertoni, H. L.) 1985. Ray-Optical Analysis of spherical focussing transducers for acoustic microscopy, *Ibid.*, 715–719

TAYLOR, J. (with Mavor, J.) 1986. Exact design of stray-insensitive switched capacitor LDI ladder filters from unit element prototypes. In *IEEE Transactions on Circuits and Systems*, vol. CAS-33, no. 6.

VAEZ IRAVANI, M. 1985. An all fiber scanning differential phase interference optical microscope. In *1985 Annual Meeting of the Optical Sciences of America, Washington D.C., 14–18 October*, 27.

VAEZ IRAVANI, M. 1985. Fiber sensor as a SAW detector and as a differential phase contrast microscope. *Ibid.*, 27.

VENKATESH, S. (with Lee, W. R., Guthrie, S., Cruickshank, F. R., Foulds, W. S., Quigley, R. J., Bailey, R. T.) 1986. An *in-vitro* morphological study of Q-switched neodymium/YAG laser traveculotomy. *Brit. J. of Opthalmology*, vol. 70, no. 2, 89–96.

WHITE, R. M. 1986. Surface acoustic wave and lamb wave sensors. *Proc. International Symposium on Surface Waves in Solids and Layered Structures, Novosibirsk, USSR, 1–4 July*, vol. 1, 342–356.

MECHANICAL ENGINEERING

ASTON, J. G. L., MARSHALL, A. J. (with Rydill, L. J.) 1986. Assessing the hydrostatic stability of marine vehicle designs. *RINA Spring Meetings, London, 15–17 April 1986.* 16 pp.

BETTS, C. V. (with Harris, P. J.) 1985. Conversion of merchant ships for military operations. In *Proc. International Symp: Air Threat at Sea, London, 11–14 June 1985.* (London: RINA). Vol. 1, 13–17.

BETTS, C. V. 1985. Discussion to various papers. *Trans. RINA*, vol. 127, no. 16, 177.

BOND, L. J., GEORGIOU, G., PUNJANI, M., SAFFARI, N. 1985. Finite difference modelling and numerical visualisation of pulsed ultrasonic waves. In *Proc. Ultrasonics International 85, London, July 1985*, 539–544.

BOND, L. J. (with Hong, M., Murrell, S. A. F.) 1986. Computer modelling of seismic wave propagation and interaction with discontinuities in rock masses. In *Proc. 27th US Symp: Rock Mechanics, University of Alabama, USA, June 23–25 1986.* 488–495.

BOND, L. J. 1986. Review of Frank Fahy *Sound and structural vibration radiation and transmission and response. IEE proceedings, Part A*, vol. 133, no. 2, 88.

BOND, L. J. 1986. Review of E. A. Ash and E. G. S. Paige (editors). *Springer series on wave phenomena, vol. 2: Rayleigh wave theory and application. Ultrasonics*, vol. 23, no. 3, 167.

BROOME, D. R., GOHEEN, K. R. (with McGrath, D.) 1986. Hardware and software development of a fully adaptive ROV autopilot. In *Proc. ROV86, Aberdeen, Scotland, February 1986*, 235–255.

BROOME, D. R. 1985. University research in ROV systems is helping the UK offshore industry. *Petroleüm Review*, vol. 39, no. 467, 30–34.

BROWN, D. T., PATEL, M. H. An investigation of wave induced inertia and drag forces on semisubmersible vessels. In *Trans. RINA*, paper W5, 1–12.

CHALONER, C., BOND, L. J. (with Green, D. T.) 1985. Born inversion for ultrasonic defect sizing. In *Proc. Ultrasonics International, London, July 1985*, 763–768.

CHALONER, C., BOND, L. J. 1986. Ultrasonic signal processing using Born inversion. *NDT International*, vol. 19, no. 3, 133–140.

CHALONER, C., BOND, L. J. 1986. Test for 1-D Born inversion data. *Electronics Letters*, vol. 22, no. 3, 171–173.

CLAYTON, B. R. (and others) 1985. *Wind assisted ship propulsion – a development strategy*. (London: British Wind Energy Association). 24 pp.

CLAYTON, B. R. 1985. *Aerodynamic tests on NACA 0200 aerofoil: report E/5A/CON/5038/1233*. (London: Dept. of Energy (ETSU)). 25 pp.

CLAYTON, B. R. (Editor.) 1985. *Proc. 1st BWEA Symp: Wind Assisted Ship Propulsion, Glasgow. November 1985*. (London: British Wind Energy Association). 174 pp.

CLAYTON, B. R. 1986. *Analysis of aerodynamic tests on NACA 0200 aerofoil: publication ETSU WN 5038/1*. (London: Dept. of Energy (ETSU)). 18 pp.

CLAYTON, B. R. 1985. BWEA initiative and strategy on wind assisted ship propulsion. In *Proc. 1st BWEA Symp: Wind Assisted Ship Propulsion* B. R. Clayton (editor), Glasgow, November 1985. (London: British Wind Energy Association.) 1–25.

CLAYTON, B. R., WEBB, R. 1986. The dynamic response of surface effect ships in regular head seas using model simulations. In *Proc. 5th International Conf: High Speed Surface Craft, Southampton, May, 1986*, 2.1–2.27.

COLLINS, R. (with others) 1986. *The modelling of electrical current NDT methods and its application to weld testing: AERE R 12114*. (Harwell Laboratory: UKAEA.) 46 pp.

COLLINS, R. (with Michael, D. H., Williams, P. G., Toufic, F.) 1986. Surface distributions for eddy current probes. In *Review of progress in quantitative NDE, vol. 5A*, 259–269. D. O. Thompson and D. E. Chimenti (editors). (New York: Plenum).

COLLINS, R. (with Mirshekar-Syahkal, D., Michael, D. H., Pinsent, H. G.) 1985. Surface electromagnetic fields around surface flaws in metals. *J. NDE*, vol. 5, no. 2, 81–93.

COOMBES, A. C. A., DAVIES, R. M. (with Lawrence, R. B.) 1985. The use of bicomponent fabrics for bonding polypropylene sockets in prostheses. *Prosthetics and Orthotics International*, vol. 9, 145–153.

COUSINS, S. J. 1986. Reshapeable body support systems. In *Proc. World Cong: International Society of Prosthetics and Orthotics, Copenhagen, Denmark, 29 June–4 July 1986*, 74.

COUSINS, S. J., KING, D. P. 1986. Commercial aspects of supplying seating for the disabled. In *Proc. 2nd International Seating Symposium, Vancouver, British Columbia, 20–22 February 1986*, 83–86.

DAVIES, R. M. 1986. Computer aided design and manufacture in prosthetics: an update. In *12th Annual Meeting & Scientific Symp: American Acad. Orthotists & Prosthetists, Las Vegas, Nevada, USA, 29 January–2 February 1986*. 28.

DAVIES, R. M. 1986. Prosthesis shape replication and socket production using CAM. In *5th World Cong: ISPO, Copenhagen, Denmark, 29 June–4 July 1986*, 63.

DAVIES, R. M. 1986. The technologies of shape information and materials processing in prosthetics and orthotics. *Ibid.*, 318.

DAVIES, R. M., DEWAR, M. E. (with Foort, J., Klasson, B., Saunders, C.) 1986. An introduction to CAD/CAM. *Ibid.*, 478.

DHARMAVASAN, S., SENEVIRATNE, L. D. 1986. Stress analysis of overlapped K-joints. In *Proc. International Conf. Fatigue and Crack Growth in Offshore Structures, London, 7–8 April 1986*, 17–30.

DHARMAVASAN, S., SENEVIRATNE, L. D. 1986. Stress analysis of axially loaded overlapped K-joints. In *Proc. Fifth Offshore Mechanics and Arctic Engineering (OMAE) Symposium, Tokyo, Japan, April 1986*, 313–320.

DOVER, W. D., GLINKA, G. (with Reynolds, A. G.) (Editors.) 1986. *Fatigue and crack growth in offshore structures*. (London: I.Mech.E.). 220 pp.

DOVER, W. D. 1985. Variable amplitude fatigue of offshore structural elements. In *Proc. AGM: Engineering Integrity Society, London, October 1985.*

DOVER, W. D. 1985. The fracture mechanics requirement from NDT. In *Proc. Conf: Brit. Inst. NDT, Newcastle, November 1985.*

DOVER, W. D., BOND, L. J. 1985. Crack characterisation in welded nodes as found on offshore structures using acpd and ultrasonic techniques. In *Proc. 11th World Conf: Nondestructive Testing, Las Vegas, U.S.A., November 1985.*

DOVER, W. D. (with Reynolds, A. C., Loader, D. J., Walker, E. F.) 1986. Review paper – summary of the Cohesive Fatigue Research Programme. In *Proc. International Conf.: Fatigue and Crack Growth in Offshore Structures, London, 7–8 April 1986*, 213–220.

DOVER, W. D., CONNOLLY, M. P. 1986. Fatigue fracture mechanics assessment of tubular welded Y- and K-joints. *Ibid.*, 117–133.

DOVER, W. D., WILSON, T. J. 1986. Corrosion fatigue of tubular welded T-joints. *Ibid.*, 135–153.

EATOCK TAYLOR, R. 1985. Report of Committee I.2. Derived loads. In *Proc. Int. Ships. Structures Congress, Genoa, Italy, September 1985*, vol. I.2, 1–65

EATOCK TAYLOR, R., HUNG, S. M. 1986. Wave drift enhancement effects for TLP and submersible systems. In *Proc. Fifth Offshore Mechanics and Arctic Engineeriong (OMAE) Symposium, Tokyo, Japan, April 1986*, vol. I, 273–280.

EATOCK TAYLOR, R., WU, G. X. 1986. Wave resistance and lift on cylinders by a coupled element technique. *Int. Shipbldg. Progress*, vol. 33, 1–9.

FISHER, L. D., LORD, M. 1986. The bouncy knee in a semi-automatic knee lock prosthesis. *Prosthetics and Orthotics Int.*, vol. 10, 35–39.

FRENCH, P. C., BOND, L. J., SAFFARI, N. 1985. Computer assisted ultrasonic NDT. In *Proc. Ultrasonics International 85, London, July 1985*, 775–780.

GLINKA, G., DOVER, W. D., TOPP, D. 198?. Fatigue assessment of tethers. In *Proc. Interntional Conf.: Fatigue and Crack Growth in Offshore Structures, London, 7–8 April 1986*, 187–198.

GOHEEN, K. R., JEFFERYS, E. R., BROOME, D. R. Robust self-designing controllers for underwater vehicles. In *Proc. Fifth Offshore Mechanics and Arctic Engineering (OMAE) Symposium, Tokyo, Japan, April 1986*, 31–38.

van GRIETHUYSEN, W. J. (with Pattison, D. R., Moores, N) 1986. Computer aided structural design in 'Goddess'. In *Proc. Conf.: Advances in Marine Structures, Dunfermline, Scotland, 20–23 May 1986.* 610–630.

JEFFERYS, E. R. (with Chung, J. S., Chakrabarti, S. K., Maeda, H.) (editors) 1986. In *Proc. of the Fifth International Offshore Mechanics and Arctic Engineering (OMAE) Symposium, vol. I.* (New York: ASME.) 705 pp.

JEFFERYS, E. R. (with Whittaker, T. J. T.) 1985. Latching control of an oscillating water column device with air compressibility. In *IUTAM Symposium, Lisbon, Portugal, 1985*. D. V. Evans, A. F. de O. Falcao (editors). (Berlin: Springer Verlag.) 281–292.

JEFFERYS, E. R. 1986. A comparison of three methods of calculating directional spectra. In *Proc. Fifth Offshore Mechanics and Arctic Engineering (OMAE) Symposium, Tokyo, Japan, April 1986*, 45–50.

JEFFERYS, E. R., SAMRA, B. S. 1985. Adaptive prediction of the motion of marine vehicles. *J. Energy Resources Technology*, vol. 107, no. 4, 450–454.

JONES, W. J. D., BLACKIE, A. P. 1986. Cyclic tension corrosion fatigue of three quenched and tempered low alloy steels in sea water. In *Fatigue and crack propagation in offshore structures*, 199–212. W. D. Dover, G. Glinka, A. G. Reynolds (editors). (London: I.Mech.Eng.).

LUGG, M. C., COLLINS, R., PARRAMORE, D. R. 1985. The ACFM technique: recent work related to the aerospace industry. In *NDT-85: Proc. 20th Annual Brit. Conf.: NDT*, P. J. Emerson and G. Oates (editors). (Warley: EMAS.) 535–549.

LUGG, M. C., DOVER, W. D., PARRAMORE, D. R. 1986. The ACFM technique: recent advances in crack depth measurement. In *Review of progress in quantitative NDE, vol. 5*, 403–408. D. O. Thompson, D. E. Chimenti (editors). (New York: Plenum).

LUGG, M. C., DOVER, W. D. (with Kilpatrick, I., Cargill, J.) 1986. An assessment of factors that influence the skin depth in ACFM crack sizing. *Ibid.*, 207–214.

MASSEY, B. S. 1986. *Measures in science and engineering: their expression, relation and interpretation* (Chichester: Ellis Horwood). 216 pp.

NIGHTINGALE, C. J. E. (with Finlay, I. C., Bannell, J. L. K., McMillan, T.) 1985. The measurement of the sizes of droplets leaving the throttle plate of an air-valve carburettor. *J. Phys. D.: Appl. Phys.*, vol. 18, 1213–1222.

NIGHTINGALE, C. J. E. 1986. Review of I. Uriele & D M. Berchowitz, *Stirling cycle engine analysis. Int. J. Ambient Energy*, vol. 7, no. 1, 54–55.

NIU, X., DOVER, W. D. 1986. Stress analysis of extruded joints for use in offshore structures. *J. Applied Ocean Research*, 1986. July, 125–133.

PATEL, M. H., BROWN, D. T. 1985. A theory for vortex shedding from the keels of marine vehicles. *J. Eng. Maths*, vol. 19, no. 4, 265–295.

PATEL, M. H. 1986. Compliant marine vehicles. *The Naval Architect*, section E110–2.

PATEL, M. H., WITZ, J. A., HARRISON, J. H. 1986. On the hydrodynamics of submersibles with articulated members. *Proc. Royal Society*, vol. A403, 81–109.

PATEL, M. H., BROWN, D. T., WITZ, J. A. 1986. Operability analysis of a monohull crane vessel. *RINA Spring Meetings and Trans. RINA, London, Spring 86*, paper 5, 1–9.

PATEL, M. H. 1986. Reducing the wave induced motions of offshore vessels. *Marine Engineer's Review*, April, 22–23.

PATEL, M. H., HARRISON, J. H. 1986. The mechanics of a compliant motion suppression system for submersibles. *J. Sound Vibr.*, vol. 106, no. 3, 491–507.

PATEL, M. H. 1985. Review of *The role of design, inspection and redundancy in marine structurable reliability: proceedings of an international symposium, November 14–16, 1983. Engineering Structures*, vol. 7, 283–284.

PUNJANI, M., BOND, L. J. Scattering of plane waves by a partially closed crack. In *Review of progress in quantitative NDE, vol. 5A*, 61–71. D. O. Thompson and D. E. Chimenti (editors). (New York: Plenum).

SAFFARI, N., BOND, L. J. (with Gostelow, C., Crocker, R.) 1985. Improved ultrasonic methods for gas turbine NDE. In *Review of progress in quantitative NDE, vol. 5A*, 145–148. D. O. Thompson and D. E. Chimenti (editors). (New York: Plenum).

SAFFARI, N., BOND, L. J. 1985. Leaky Rayleigh waves for defect characterisation. In *Proc. Ultrasonics International 85, London, July 1985*, 73–78.

SMITH, D. M., LORD, M. 1985. A tool for standing load line assessment. In *Biomechanical measurement in orthopaedic practice*, 211–219. M. Whittle and J. D. Harris (editors). (Oxford: Oxford University Press).

SWIFT, R., CONNOLLY, M. P. 1985. Some statistical aspects of NDT. In *Proc. 20th Annual British Conf.: Non-destructive Testing, Strathclyde, Scotland, 17–19 September 1985*, 471–484.

WILKINSON, J., GREENWOOD, C., DAVIES, Prof. R. M. (with Stewart, C. P. U., Condie, D. N.) 1986. Clinical evaluation of Rapidform polypropylene sockets. In *5th World Cong.: ISPO, Copenhagen, Denmark, 29 June–4 July 1986*, 368.

PHOTOGRAMMETRY AND SURVEYING

ALLAN, A. L., HUDSON, C. 1986. The figure of the earth. In *Papers, XVIII International Congress Surveyors, Toronto, Canada, 1–11 June 1986.* Paper 106.3, 127–141.

ALLAN, A. L. 1986. The role of short courses in continuing education; with special reference to the industrial surveying (IAPI) courses at University College London. *Ibid.*, Paper 207.2, 157–163.

ATKINSON, K. B. 1986. Cartographic and data bank applications of photogrammetry and remote sensing. A review of ISPRS Commission IV activities 1985–1988. *Remote Sensing Society's News and Letters*, vol. 47, 23–25.

DOWMAN, I. J. 1985. Report of the Metric Camera workshop at DFVLR Oberpfaffenhofen. *Photogrammetric Record*, vol. 11, 667–670.

DOWMAN, I. J. (with McKay, W. M., Farrow, J. E.) 1985. Experiences with analytical plotters. *Ibid.*, 729–743.

DOWMAN, I. J. 1985. Cartography and geometric correction. In *Proc. SAR 580 Investigators Workshop, Joint Research Centre, Ispra, Italy, May 1984*, 125–129.

DOWMAN, I. J., GIBSON, R. 1985. An evaluation of SAR 580 synthetic aperture radar for map revision and monitoring. *Ibid.*, 195–213.

DOWMAN, I. J., GUGAN, D. J. 1985. *SPOT simulation study*. Ordnance Survey contract MPD 190/35/4. 32 pp.

DOWMAN, I. J. 1986. Instrumentation for teaching. *Land and Minerals Surveying*, vol. 4, 44–45.

GATES, J. W. C., ATKINSON, K. B. 1985. Other applications of photogrammetry and remote sensing. *Photogrammetria*, vol. 40, 225–232.

MENEGUETTE, A. A. C. 1985. Evaluation of Metric Camera photography for mapping and co-ordinate determination. *Photogrammetric Record*, vol. 11, 699–709.

MULLER, J.-P. A. L., DUFF, M. J. B. (Editors.) 1985. *Image understanding in remote sensing. In Proc. Workshop at University College London, 10 July 1985.* (London: Remote Sensing Society and British Pattern Recognition Association). 156 pp.

WICKENS, E. H. 1986. A guide to the use of architectural photogrammetry. *Photogrammetric Record*, vol. 12, 92–93.

BARTLETT SCHOOL OF ARCHITECTURE AND PLANNING

BANISTER, D. J. 1986. Toll road pricing on inter urban highways in developing countries. In *Town Planning Discussion Paper No. 46.* (London: UCL). 28 pp.

BANISTER, D. J. 1986. The organisation and planning of transport services in Prague, Bratislava and Brno. *Report to the British Council*, 24 pp.

BANISTER, D. J. 1985. Integration and impact of the Tyne and Wear metro. In *Proc. of the Conf.: Transport and Territory: A Changing Model. Milan Polytechnic, Italy, March 1985*, 11 pp.

BANISTER, D. J. 1985. Public transport in London: Instability and Change. *Ibid.*, 22 pp.

BANISTER, D. J. 1986. The machine stops: transport, technology and urban form. In *Proc. of the Institute of British Geographers Special Session on Technology and Urban form, Reading University, January 1986*, 13 pp.

BANISTER, D. J. 1986. Equity and evaluation in transport schemes for the disadvantaged. In *Proc. of the World Conference on Transport Research, Vancouver, Canada, May 1986*, 15 pp.

BANISTER, D. J. (with others) 1986. Access to hospitals in the City and Hackney Health Authority, London. In *Town Planning Discussion Papers no. 43*, (London: UCL). 39 pp.

BANISTER, D. J. (with others) 1986. A methodology for assessing social considerations in transport of low and intermediate level radioactive waste. *Report to the Department of the Environment (DOE/RW/86-020), May*, 51 pp.

CLARKE, LINDA, 1986. The determinants of training provision in the construction industry: the applicability of notions of deskilling, transferable/non-transferable skills, and general/specific skills. *Bartlett International Summer school (BISS) Proceedings, 7, London 1986*, 144–164.

CLARKE, LINDA, EDWARDS, M. 1986. On the conceptual development and organisation of the Bartlett International Summer School. *Ibid.*, 27–29.

DAVIDSON, JOAN, 1985. Human settlements: building a new resourcefulness. *Habitat International*, vol. 9, no. 3/4, 7–26.

DUNSTER, D., 1986. An attempt at teaching a history of the built environment . . . *Bartlett International Summer School (BISS) Proceedings, 7, London 1986*, 89–93.

EDWARDS, M. 1986. On the production and reproduction of town and country in Britain. *Bartlett International Summer School (BISS) Proceedings, 7, London 1986*, 94–97.

FORTY, A., 1986. *Objects of Desire, Design and Society* 1750–1980. (London: Thames and Hudson, New York: Pantheon), 256 pp.

FORTY, A. 1985. The Saatchi Museum, 98a Boundary Road. *Artscribe*, September–October 1985, 49–50.

FORTY, A. 1985. Where are the patrons? Review of T. Buddensieg and H. Rogge, *Industriekultur, Peter Behrens and the AEG. Art History*, vol. 8, no. 3, 385–388.

GROAK, S. 1985. A Cambridge test. *Architects' Journal*, vol. 182, no. 138, 43–56.

GROAK, S. 1986. Teaching process. Review of BRE Teaching Package: *Design for Production, 1985. Architects' Journal*, vol. 183, no. 23, 59–61.

GROAK, S., IVE, G. 1986. Economics and technical change: some implications for the study of the building industry. In *Building Economics Research Agenda*. D. Hawk (editor). (School of Architecture, New Jersey Institute of Technology, USA).

GYFORD, J. E. B. 1985. *The Politics of Local Socialism*. (London: George Allen and Unwin). 129 pp.

GYFORD, J. E. B. 1986. Parties and politics in central–local government relations. In *New Research in Central–Local Relations*, 93–107. M. Goldsmith (editor). (Aldershot: Gower).

GYFORD, J. E. B. 1986. Diversity, sectionalism and local democracy. In *Aspects of Local Democracy*, 106–131. (London: HMSO).

GYFORD, J. E. B. (with Leach, S., Gowe, C., Midwinter, A.) 1986. *The Political Organisation of Local Authorities*. (London: HMSO), 340 pp.

HILLIER, B. 1985. The nature of the artificial: the contingent and the necessary in spatial form in architecture. *Geoforum*, vol. 16, no. 2, 163–178.

HILLIER, B. 1986. City of Alice's Dreams. *Architects' Journal*, vol. 184, no. 28, 39–41.

IVE, G. 1986. Contribution to an agenda for research into the production of the built environment in (former British Colonial) Africa. *Bartlett International Summer School (BISS) Proceedings, 7, London 1986*, 335–347.

JANSSEN, J. 1986. Disparities constituting the dynamics of modes of production: Middlesex and London building production in the transition from feudalism to capitalism. *Bartlett International Summer School (BISS) Proceedings, 7, London 1986*, 165–181.

JANSSEN, J. 1986. On concepts of development and underdevelopment. *Ibid.*, 201.

KING, A. D. 1986. The social production of building form: a case study. *Bartlett International Summer School (BISS) Proceedings, 7, London 1986*, 348–353.

LOE, D. L., ROWLANDS, E. 1985. *Nucleus Hospitals – Daylighting Study of Multibed Rooms in Adult Acute Wards*. (London: Department of Health & Social Security). 22 pp.

LOE, D. L., ROWLANDS, E., MANSFIELD, K. P. 1986. Daylighting of nucleus hospital wards. In *Proc. of CIBSE National Lighting Conference, Nottingham, March 1986*. (London: CIBSE). 230–245.

LOWE, P. (with others) 1986. *Countryside Conflicts: The Politics of Farming, Forestry and Conservation*. (Aldershot: Gower). 378 pp.

LOWE, P. Room with a view in the great rural land bonanza. *New Socialist*, no. 40, 37–38.

LOWE, P. 1986. The Rural Land Use Debate. *Ecos*, vol. 7, no. 3, 17–21.

LOWE, P. (with Cox, G., Winter, M.) 1985. Changing directions in agricultural policy: corporatist arrangements in production and conservation policies. *Sociologia Ruralis*, vol. 25, 130–154.

LOWE, P. (with Rudig, W.) 1986. The withered 'greening' of British politics: a study of the Ecology Party. *Political Studies*, vol. 34, 262–284.

LOWE, P. (with Rudig, W.) 1986. Political ecology and the social science, *Brit. J. of Political Science*, vol. 16, 223–260.

MARTENS, MAARTJE (with Harloe, M.) 1985. The restructuring of housing provision in Britain and the Netherlands. *Environment and Planning A.*, vol. 17, 1063–1087.

MERRETT, S. 1985. *The Right to Rent: a Feasibility Study*. (London: GLC). 96 pp.

MERRETT, S. 1986. *The Way Forward: Haringey's Local Housing Plan 1986–1990*. (London: London Borough of Haringey). 60 pp.

MERRETT, S. 1986. Capital controls and housing expenditure. *Housing Review*, vol. 35, no. 1, 14–16.

MERRETT, S. 9 May 1986, London Weekend Television, The London Programme.

MERRETT, S., SMITH, R. 1986. Stock and flow in the analysis of vacant residential property. *Town Planning Review*, vol. 57, no. 1, 51–67.
PEPONIS, J. 1985. The spatial culture of factories. *Human Relations*, vol. 38, no. 4, 357–390.
PEPONIS, J. 1985. Health Centres: building programme and social policy. *Bull. of Greek Institute of Architects*, vol. 2, 31–39.
ROWLANDS, E., LOE, D. L., MANSFIELD, K. P. (with McIntosh, R). 1985. Lighting adequacy and quality in office interiors by consideration of subjective assessment and physical measurement. *CIE Journal*, vol. 4, no. 1, 23–37.
RYSER, JUDITH. 1986. Decentralisation, crise de services urbains en Europe. *Les Annales de la Recherche Urbaine*, no. 31, 138–145.
SIMMIE, J. M. 1985. Corporatism and planning. In *The Political Economy of Corporations*, 174–201. W. Grant (editor). (London: Macmillan).
SIMMIE, J. M. 1985. Marx and Engels: their times and the urban question: a critique. *Town Planning Discussion Papers*, no. 42 (London: UCL).
SIMMIE, J. M. 1986. Structure plans, housing and political choice in the South East. *Catalyst*, vol. 2, no. 2, 71–83.
SIMMIE, J. M. (with James, N.) 1986. The money map of defence. *New Society*, 31 January 1986, 179–180.
SIMMIE, J. M., FULLER, MARION (with James, N.) 1986. The growth of service employment in London 1971–1991. *Town Planning Discussion Papers*, no. 45 (London: UCL).
SMART, A. D. G. 1986. Structure plans and retailing. In *Proc. PTRC Annual Summer Meeting, University of Sussex, 14–18 July 1986*. (London: PTRC Education and Research Services Ltd.).
SMART, A. D. G. 1986. Options for the non-metropolitan future. *Town and Country Planning*, vol. 55, no. 12, 36–37.
SMITH, R. 1986. Improvement for sale: pedestrian progress in the wrong direction? In *Low Cost Home Ownership: An Evaluation of Housing Policy Under the Conservatives*, 190–204. P. Booth and T. Crook (editors). (Aldershot: Gower).
SMITH, R. (with Ramsay, E.) 1986. Low cost home ownership – results of the 1985 survey. *Voluntary Housing*, vol. 18, no. 4, 14–15.
SWENARTON, M. S. 1986. Sellier and Unwin. *Planning History Bulletin*, vol. 7, 50–57.
SWENARTON, M. S. 1986. Islington's Estate Action. *Building Design*, 785, 14–18.
SWENARTON, M. S. (with Taylor, S.) 1985. The scale and nature of the growth of owner-occupation in Britain between the wars. *Econ. Hist. Rev. (2nd series)*, vol. 38, 373–392.
SYMES, M. S. 1985. Meeting statutory requirements. In *Industrial Rehabilitation*, 95–104, P. Eley and J. Worthington (editors). (London: Architectural Press).
SYMES, M. S. 1985. Planning the space. *Ibid.*, 126–132.
SYMES, M. S. 1985. Equipping and servicing the unit. *Ibid.*, 133–134.
SYMES, M. S. 1985. Assessing the value of office space. In *Building Owners and Managers of Australia News*, no. 8, 22–26.
SYMES, 1985. Urban development and the education of designers. *J. of Architectural and Planning Research*, vol. 2, no. 1, 23–37.
SYMES, M. S. 1986. Designers involvement in design. In *Environment and Human Action. Proc. of the 8th International Conference of International Association for the Study of People and their Physical Surroundings*. M. Krampen (editor). West Berlin, July 25–29, 1984. (Berlin: Hochshule der Kunste). 565–566.

SYMES, M. S. 1986. Architects, planners and politicians: a case study of changing professional roles. In *Environments in Transition. The 9th International Conference of the International Association for the Study of People and their Physical Surroundings, Haifa, Israel, 7th–10 July 1986*, 15–16.

SYMES, M. S. 1985. New roles for architects: a discussion , some case studies and an educational example. In *Places and Placemaking – Proceedings of the 4th International Conference on People and Physical Environment Research, Melbourne, Australia, 16–21 July 1985*, 305–311.

SYMES, M. S. (with Marmot, Alexi) 1985. The social context of design: a case problem approach. *J. of Architectural Education*, vol. 38, no. 4, 27–31.

SYMES, M. S. (with Duffy, F., Ellis, P.) 1985. Research and practice; a case history. *Environment and Behaviour*, vol. 17, no. 1, 119–132.

SYMES, M. S. (with others) 1985. International workshop on the case method in environmental design education and research. In *Proc. of 16th Annual Conference of Environmental Design Research Association, New York, USA. 13–15 June 1985*, 300–301.

TABOR, O. P. 1986. The Alexander method. Review of Christopher Alexander. *The productions of houses. Archit. Rev.*, February 1986, 86.

TABOR, O. P. 1986. Good times. Review of D. Cruikshank (editor). *Timeless Architecture. Architects' Journal*, 12 February, 77.

FACULTY OF MEDICAL SCIENCES

ANATOMY AND EMBRYOLOGY

ADAMS, D. J., BURNSTOCK, G. (with Sanders, K. M.) 1985. Whole cell and single channel recording from guinea-pig cultured myenteric neurons. *Biophys. J.*, vol. 47, 268a.

ALAFACI, C., BURNSTOCK, G. (with Cowen, T., Crockard, H. A.) 1985. The effect of unilateral and bilateral sympathetic ganglionectomy on the innervation of the cerebral vasculature of the gerbil. In *Proc. XII International Anat. Congr.: London, 1985*, A7.

ALAFACI, C., BURNSTOCK, G. (with Cowen, T., Crockard, H. A.) 1985. The origin and distribution of 5-HT-containing nerves to the major cerebral arteries of the gerbil. *Ibid.*, A137.

ALAFACI, C., COWEN, T., BURNSTOCK, G. (with Crockard, H. A.) 1985. Origin and distribution of noradrenergic and NPY-containing nerves in cerebral blood vessels of the gerbil. *J. Cerebral Blood Flow Metab.*, vol. 5, Suppl. 1, S543–S544.

ALAFACI, C., COWEN, T., BURNSTOCK, G. (with Crockard, H. A.) 1986. Cerebral perivascular serotonergic fibres have a peripheral origin in the gerbil. *Brain Res. Bull.*, vol. 16, 303–304.

ALAFACI, C., COWEN, T., BURNSTOCK, G. (with Crockard, H. A.) 1986. Noradrenergic innervation of gerbil large cerebral arteries. *Blood Vessels*, vol. 23, 154–159.

ALI, N. N., BOYDE, A., JONES, S. J. (with Melhuish, M., Bennet, A.) 1985. The effect of added prostanoids on cell shape osteoblasts maintained on bone *in vitro*. *Bone*, vol. 7, 162.

BELAI, A., LINCOLN, J., BURNSTOCK, G. (with Loesch, A.) 1986. Enteric nerves in diabetic rats: electron microscopic evidence for neuropathy of vasoactive intestinal polypeptide-containing fibres. *Acta Neuropathol. (Berl.)*, vol. 70, 161–168.

BELAI, A., LINCOLN, J., MILNER, P., CROWE, R., BURNSTOCK, G. (with Loesch, A.) 1985. Enteric nerves in diabetic rats: increase in vasoactive intestinal polypeptide but not substance P. *Gastroenterology*, vol. 89, 967–976.

BELLAIRS, R. 1986. The primitive streak. *Anat. Embryol.*, vol. 174, 1–14.

BELLAIRS, R. (with Ooi, V. E. C., Sanders, E. J.) 1986. The contribution of the primitive streak to the somites in the avian embryo. *J. Embryol. Exp. Morphol.*, vol. 92, 193–206.

BELLAIRS, R. (and others) 1985. Isolation, characterization and localization of a lectin within the vitelline membrane of the hen's egg. *J. Embryol. Exp. Morphol.*, vol. 90, 389–407.

BERRY, D. J., O'HARA, P. T., JEFFERY, G., LIEBERMAN, A. R. 1986. Are there connections between the thalmic reticular nucleus and the brainstem reticular formation? *J. Comp. Neurol.*, vol. 243, 347–362.

BOYDE, A. 1985. Anatomical considerations relating to tooth preparation. In *Resin Based Posterior Materials*, 377–403. D. C. Smith and G. Vanherle (editors). (Minneapolis: 3 M Co.).

BOYDE, A. 1985. Stereoscopic images in confocal (tandem scanning) microscopy. *Science*, vol. 230, 1270–1272.

BOYDE, A. 1985. Report on International Symposium: resin-based posterior materials. *Br. Dent. J.*, vol. 158, 266–268.

BOYDE, A. (with Fortelius, M.) 1986. Development, structure and function of rhinocerous enamel. *Zool. J. Linn. Soc.*, vol. 87, 181–214.

BOYDE, A. (with Lester, K. S.) 1986. Scanning microscopy of platypus teeth. *Anat. Embryol.*, vol. 174, 15–26.

BOYDE, A. (with Petran, M., Hadravsky, M., Mueller, M.) 1985. Tandem scanning reflected microscopy. In *Science of Biological Specimen Preparation*, 85–94. M. Müller, R. P. Becker, A. Boyde and J. J. Wolasewick (editors). (Chicago: SEM Inc.).

BOYDE, A. (with Reith, E. J.) 1985. The pyroantimonate reaction and transcellular transport of calcium in rat molar enamel organs. *Histochemistry*, vol. 83, 539–543.

BOYDE, A., ALI, N. N., JONES, S. J. 1985. Optical and scanning electron microscopy in the single osteoclast resorption assay. *Scanning Electron Microsc.*, vol. III, 1259–1271.

BOYDE, A., JONES, S. J. 1984. Collagen in bone. In *Proc. Br. Connective Tissue Soc. Meet. on Collagen Fibrillogenesis and Minority Collagens, Oxford, 1–2 October.* Abstract No. 4.

BOYDE, A., REID, S. A. 1986. 3-D analysis of tetracycline fluorescence in bone by tandem scanning reflected microscopy. *Bone*, vol. 7, 148–149.

BOYDE, A., SHAPIRO, I. M. 1985. Mineralization pattern and morphology of the normal and rachitic chick growth cartilage. *Ibid.*, 161–162.

BUCKLEY, N. J., BURNSTOCK, G. 1986. Localization of muscarinic receptors on cultured myenteric neurons: a combined autoradiographic and immunocytochemical approach. *J. Neurosci.*, vol. 6, 531–540.

BUCKLEY, N. J., BURNSTOCK, G. 1986. Autoradiographic localization of peripheral M1 muscarinic receptors using [^{3}H]pirenzepine. *Brain Res.*, vol. 375, 83–91.

BURNSTOCK, G. 1985. Purinergic transmitters and receptors: new directions. In: *Adenosine: Receptors and Modulation of Cell Function*, 3–14. V. Stefanovich, K. Rudolphi and P. Schubert (editors). (Oxford: IRL Press).
BURNSTOCK, G. 1985. Overview of peripheral autonomic system. In *Proc. XII International Anat. Congr.: London, 1985*, A87.
BURNSTOCK, G. 1985. Smooth muscle activity and the influence of nerves – an overview. *Ibid.*, A88.
BURNSTOCK, G. 1985. Nervous control of smooth muscle by transmitters, cotransmitters and modulators. *Experientia*, vol. 41, 869–874.
BURNSTOCK, G. 1986. The non-adrenergic non-cholinergic nervous system. *Arch. Int. Pharmacodyn.*, vol. 280, Suppl., 1–15.
BURNSTOCK, G. 1986. Non-adrenergic neurotransmitters in relation to sympathetic nervous control of the lower urinary tract. *Clin. Sci.*, vol. 70, Suppl. 14, 15s–20s.
BURNSTOCK, G. 1986. The changing face of autonomic neurotransmission. (The First von Euler Lecture in Physiology.) *Acta Physiol. Scand.*, vol. 126, 67–91.
BURNSTOCK, G. 1986. Autonomic neuromuscular junctions: current developments and future directions. (The Anatomical Society Review Lecture.) *J. Anat.*, vol. 146, 1–30.
BURNSTOCK, G. (with Fehér, E.) 1986. Ultrastructural localisation of substance P, vasoactive intestinal polypeptide, somatostatin and neuropeptide Y immunoreactivity in perivascular nerve plexuses of the gut. *Blood Vessels*, vol. 23, 125–136.
BURNSTOCK, G. (with Hanani, M.) 1985. Synaptic activity of myenteric neurons in tissue culture. *J. Auton. Nerv. Syst.*, vol. 14, 49–60.
BURNSTOCK, G. (with Hanani, M.) 1985. The actions of substance P and serotonin on myenteric neurons in tissue culture. *Brain Res.*, vol. 358, 276–281.
BURNSTOCK, G., KENNEDY, C. 1985. Is there a basis for distinguishing two types of P_2-purinoceptor? *Gen. Pharmacol.*, vol. 16, 433–440.
BURNSTOCK, G., KENNEDY, C. 1986. A dual function for adenosine 5′-triphosphate in the regulation of vascular tone. Excitatory cotransmitter with noradrenaline from perivascular nerves and locally released inhibitory intravascular agent. *Circ. Res.*, vol. 58, 319–330.
BURNSTOCK, G., MACKENZIE, I. (with Manzini, S.) 1986. Regulation of voltage-dependent calcium channels in the guinea-pig vas deferens by the dihydropyridines nifedipine and Bay K 8644. *J. Physiol. (Lond.)*, vol. 373, 62P.
CAMPBELL, G., LIEBERMAN, A. R. 1985. The olivary pretectal nucleus: experimental anatomical studies in the rat. *Phil. Trans. R. Soc. Lond. B*, vol. 310, 573–609.
CAMPBELL, G., LIEBERMAN, A. R. (with SO, K.-F.) 1985. Identification of synapses formed by the aberrent, uncrossed retinogeniculate projection in the hamster after neonatal monocular enucleation. *Dev. Brain Res.*, vol. 21, 137–140.
CHRISTIE, D., STEELE RUSSELL, I. 1985. The role of the corpus callosum in recovery of function following unilateral anteromedial cortex damage in rat. *J. Physiol. (Lond.)*, vol. 367, 37P.
CHRISTIE, D., STEELE RUSSELL, I. 1985. The effects of callosum section on motor guidance strategies in a visual discrimination task. *Neurosci. Lett.*, vol. 21, S13.
CHRISTIE, D., STEELE RUSSELL, I. 1985. Visuomotor strategies in pattern discrimination learning in rats. *Behav. Brain Res.*, vol. 16, 9–18.
CHRISTIE, D., STEELE RUSSELL, I. 1985. Frontal eye field lesions: ocular or field neglect? *Ibid.*, 198.

CONNOLD, A. L., EVERS, J. V., VRBOVÁ, G. 1986. Protease activity is involved in the elimination of polyneuronal innervation in the neonatal rat. *J. Physiol. (Lond.)*, vol. 373, 27P.

CONNOLD, A. L., EVERS, J. V., VRBOVÁ, G. 1986. Effect of low calcium and protease inhibitors on synapse elimination during postnatal development in the rat soleus muscle. *Dev. Brain Res.*, vol. 28, 99–107.

COOK, A. J., WOOLF, C. J. 1985. C-afferent fibre induced excitability increase of the flexor reflex is not due to changes in motoneurone excitability. *Neurosci. Lett., Suppl.*, vol. 21, S36.

COOK, A. J., WOOLF, C. J. 1985. Cutaneous receptive field and morphological properties of hamstring flexor alpha-motoneurons in the rat. *J. Physiol. (Lond.)*, vol. 346, 249–263.

COOK, J. E. 1986. A sharp retinal image increases the precision of the regenerated goldfish retinotectal projection under stroboscopic conditions. *J. Physiol. (Lond.)*, vol. 372, 84P.

COOK, J. E., RANKIN, E. C. C. 1986. Impaired refinement of the regenerated retinotectal projection of the goldfish in stroboscopic light: a quantitative WGA-HRP study. *Exp. Brain Res.*, vol. 63, 421–430.

CROWE, R., BURNSTOCK, G. (with Leake, L. D.) 1986. Localisation of substance P-, somatostatin-, vasoactive intestinal polypeptide- and met-enkephalin-immunoreactive nerves in the peripheral and central nervous systems of the leech *(Hirudo medicinalis)*. *Cell Tissue Res.*, vol. 243, 345–351.

CROWE, R., HAVEN, A. J., BURNSTOCK, G. 1986. Intramural neurones of the guinea-pig urinary bladder: histochemical localization of putative neurotransmitters in cultures and newborn animals. *J. Auton. Nerv. Syst.*, vol. 15, 319–339.

DEAN, M. C. 1985. The eruption pattern of the permanent incisors and first permanent molars in *Australopithecus (Pananthropus) robustus*. *Am. J. Phys. Anthropol.*, vol. 67, 251–257.

DEAN, M. C. 1985. Variation in the developing root cone angle of the permanent mandibular teeth of modern man and certain fossil hominids. *Am. J. Phys. Anthropol.*, vol. 68, 233–238.

DEAN, M. C. 1986. *Homo* and *Paranthropus*: similarities in the cranial base and developing dentition. In *Major Topics in Primate and Human Evolution*, 249–265. B. A. Wood, L. B. Martin and P. Andrews (editors). (Cambridge: Cambridge University Press).

DEAN, M. C. (with Bromage, T. G.) 1985. Re-evaluation of the age at death of immature fossil hominids. *Nature*, 317, 525–527.

DHITAL, K., BURNSTOCK, G. (and others) 1985. Cluster headache: a new approach using fluorescent histochemistry of nerves in temple skin. In *Migraine. Proc. 5th International Migraine Symp.*, F. Clifford Rose (editor), London, 1984. (Basel: Karger). 162–165.

DHITAL, K., BURNSTOCK, G. (and others) 1985. Serotoninergic immunofluorescent nerve fibres appear in human temple skin after lithium treatment. *Lancet*, ii, 779.

DHITAL, K., LINCOLN, J., BURNSTOCK, G. (with Appenzeller, O.) 1985. Adrenergic nerves of vasa nervorum and nervi nervorum in diabetes: different susceptibility of optic, autonomic and somatic nerves to streptozotocin. *Neurology*, vol. 35, Suppl. 1, 295.

DHITAL, K., LINCOLN, J., BURNSTOCK, G. (with Appenzeller, O.) 1986. Adrenergic innervation of vasa and nervi nervorum of optic, sciatic, vagus and sympathetic nerve trunks in normal and streptozotocin-diabetic rats. *Brain Res.*, vol. 367, 39–44.

ENTWISTLE, A., WARNER, A., ZALIN, R. (with Bevan, S.) 1985. Acetylcholine receptors play a role in the regulation of chick myoblast fusion. *J. Physiol. (Lond.)*, vol. 365, 89P.

FISHER, T., VRBOVÁ, G., WIJETUNGE, A. 1986. Effects of partial denervation of rat soleus muscles on the size of its motor units. *J. Physiol. (Lond.)*, vol. 373, 14P.

FITZGERALD, M. 1985. The postnatal development of cutaneous afferent fibre input and receptive field organization of the rat dorsal horn. *J. Physiol. (Lond.)*, vol. 364, 1–18.

FITZGERALD, M. 1985. The sprouting of saphenous nerve terminals in the spinal cord following early postnatal sciatic nerve section in the rat. *J. Comp. Neurol.*, vol. 240, 407–413.

FITZGERALD, M., KOLTZENBURG, M. 1986. The functional development of descending inhibitory pathways in the dorsolateral funiculus of the newborn rat spinal cord. *Dev. Brain. Res.*, vol. 24, 261–270.

FITZGERALD, M., VRBOVÁ, G. 1985. Plasticity of acid phosphatase (FRAP) afferent terminal fields and of dorsal horn cell growth in the neonatal rat. *J. Comp. Neurol.*, vol. 240, 414–422.

GLICKSTEIN, M. 1985. Ferrier's mistake. *Trends Neurosci.*, vol. 8, 341–344.

GLICKSTEIN, M. (with Legg, C. R., Mercier, B. E.) 1985. Corticopontine projections in the tree shrew *Tupaia glis*. *Neurosci. Abstr.*, vol. 11, 325.

GLICKSTEIN, M. 1986. Projections from parietal cortex to the pons in rodents. *J. Anat.*, vol. 146, 267–268.

GLICKSTEIN, M. 13 Nov 1985. BBC, Science Magazine. Interview with Bob Berry in London.

GLICKSTEIN, M. 24 Feb 1986 and 1 March 1986. Radio 4, Science Now. Interview with Colin Tudge in South Africa.

GLICKSTEIN, M., MERCIER, B. E., MAY, J. G., BAIZER, J. S. 1986. Corticopontine visual projections in the Macaque. *J. Anat.*, vol. 146, 240–241.

HASSALL, C. J. S., BURNSTOCK, G. 1986. Intrinsic neurones and associated cells of the guinea-pig heart in culture. *Brain Res.*, vol. 364, 102–113.

HASSALL, C. J. S., BURNSTOCK, G. (with Kobayashi, Y.) 1986. Culture of intramural cardiac ganglia of the newborn guinea-pig. I. Neuronal elements. *Cell Tissue Res.*, vol. 244, 595–604.

HASSALL, C. J. S., BURNSTOCK, G. (with Kobayashi, Y.) 1986. Culture of intramural cardiac ganglia of the newborn guinea-pig. II. Non-neuronal elements. *Cell Tissue Res.*, vol. 244, 605–612.

HAVEN, A. J., BURNSTOCK, G. (with Dhall, U., Cowen, T.) 1985. Development and ageing of perivascular adrenergic and peptidergic nerves in the guinea-pig. In *Proc. XII International Anat. Congr.: London, 1985*, A164.

HAVEN, A. J., BURNSTOCK, G. (with Dhall, U., Cowen, T.) 1986. Perivascular noradrenergic and peptide-containing nerves show different patterns of changes during development and ageing in the guinea-pig. *J. Auton. Nerv. Syst.*, vol. 16, 109–126.

HOBBELEN, J. F., VAN HOF, M. W. 1986. The effect of unilateral lesions in the sensory-motor cortex of newborn rabbits on the lateral hopping reaction. *Behav. Brain Res.*, vol. 20, 106.

HOYLE, C. H. V., BURNSTOCK, G. 1985. Atropine-resistant excitatory junction potentials in rabbit bladder are blocked by α, β-methylene ATP. *Eur. J. Pharmacol.*, vol. 114, 239–240.

HOYLE, C. H. V., BURNSTOCK, G. 1986. Evidence that ATP is a neurotransmitter in the frog heart. *Eur. J. Pharmacol.*, vol. 124, 285–289.

JAMES, G., HARDIMAN, M., YEO, C. 1985. Trace conditioning of the rabbit's nictitating membrane response following hippocampal lesions. *Neurosci. Lett.*, vol. 22, S509.

JAMES, G. O., STEELE RUSSELL, I. 1985. The role in visual learning of the ipsilateral optic nerve projection to the superior colliculus in rabbit. *Behav. Brain Res.*, vol. 16, 211–212.

JONES, S. J., ALI, N. N., BOYDE, A. 1986. Survival and resorptive activity of chick osteoclasts in culture. *Anat. Embryol.*, vol. 174, 265–275.

JONES, S. J., ALI, N. N., BOYDE, A. 1986. Survival and function of resorbing bone cells in culture. *Bone*, vol. 7, 156–157.

JONES, S. J., ALI, N. N., BOYDE, A. (with Maroudas, N. M.) 1985. The development of chemically defined substrata for testing osteoclastic function. *Calcif. Tiss. Int. Suppl.*, vol. 38, S5 17.

JONES, S. J., ALI, N. N., MACONNACHIE, E., BOYDE, A. 1985. Normal variation in osteoclastic activity. *Calcif. Tiss. Int. Suppl.*, vol. 38, S4 16.

JONES, S. J., GALLAGHER, J. A., BOYDE, A. 20 Dec 1985. BBC News Documentary on the work of the Foundation for Age Research.

KENNEDY, C., BURNSTOCK, G. 1986. ATP causes postjunctional potentiation of noradrenergic contractions in the portal vein of guinea-pig and rat. *J. Pharm. Pharmacol.*, vol. 38, 307–309.

KENNEDY, C., SAVILLE, V. L., BURNSTOCK, G. 1986. The contributions of noradrenaline and ATP to the responses of the rabbit central ear artery to sympathetic nerve stimulation depend on the parameters of stimulation. *Eur. J. Pharmacol.*, vol. 122, 291–300.

LEGG, C. R. 1986. Spatial contrast and flicker sensitivity following medial thalamic or visual cortex lesions in hooded rats. *Behav. Brain Res.*, vol. 19, 41–47.

LIEBERMAN, A. R. (with Gonzalo, A., Arzymanow, B. J.) 1985. Proyecciones ópticas primarias en el conejo. Estudio mediante el marcaje anterogrado con peroxidasa de rábano. *Rev. Esp. Fisiol.*, vol. 41, 161–170.

LINCOLN, J., CROWE, R., BOKOR, J., BURNSTOCK, G. (with Light, J. K., Chilton, C. P.) 1986. Adrenergic and cholinergic innervation of the smooth and striated muscle components of the urethra from patients with spinal cord injury. *J. Urol.*, vol. 135, 402–408.

LINCOLN, J., CROWE, R., BURNSTOCK, G. (with Light, J. K.) 1985. Innervation of the human urethral sphincteric mechanism in spinal cord injured patients. *J. Urol.*, vol. 133, 174A.

LOWRIE, M. B., O'BRIEN, R. A. D., VRBOVÁ, G. 1985. The effect of altered peripheral field on motoneurone function in developing rat soleus muscles. *J. Physiol. (Lond.)*, vol. 368, 513–524.

MATHIESON, J. J. I., BURNSTOCK, G. 1985. Purine-mediated relaxation and constriction of isolated rabbit mesenteric artery are not endothelium-dependent. *Eur. J. Pharmacol.*, vol. 118, 221–229.

McMAHON, S. B., WALL, P. D. 1985. The distribution and central termination of single cutaneous and muscle unmyelinated fibres in rat spinal cord. *Brain Res.*, vol. 359, 39–48.

MELDRUM, L. A., BURNSTOCK, G. 1985. Evidence against VIP or substance P being the transmitter in non-cholinergic excitatory nerves supplying the guinea-pig bladder. *J. Pharm. Pharmacol.*, vol. 37, 432–434.

MELDRUM, L. A., BURNSTOCK, G. 1985. Investigations into the identity of the non-adrenergic, non-cholinergic excitatory transmitter in the smooth muscle of chicken rectum. *Comp. Biochem. Physiol.*, vol. 81C, 307–309.

MERCIER, B. E., LEGG, C. R., GLICKSTEIN, M. 1986. Projections from parietal cortex to the pons in rodents. *J. Anat.*, vol. 146, 267–268.

MOSS, H. E., BURNSTOCK, G. 1985. A comparative study of electrical field stimulation of the guinea-pig, ferret and marmoset urinary bladder. *Eur. J. Pharmacol.*, vol. 114, 311–316.

ÖSTBERG, A. J. C., VRBOVÁ, G., O'BRIEN, R. A. D. 1986. Reinnervation of fast and slow mammalian muscles by a superfluous number of motor axons. *Neuroscience*, vol. 18, 205–213.

PARNAVELAS, J. (and others). 1985. The coexistence of oxytocin and corticotropin-releasing factor in the hypothalamus: an immunocytochemical study in the rat, sheep and hedgehog. *Neurosci. Lett.*, vol. 62, 213–218.

PARNAVELAS, J. G., KELLY, W., BURNSTOCK, G. 1985. Ultrastructural localization of choline acetyltransferase in vascular endothelial cells in rat brain. *Nature*, vol. 316, 724–725.

PARNAVELAS, J. G., KELLY, W., FRANKE, E. (with Eckenstein, F.) 1986. Cholinergic neurons and fibres in the rat visual cortex. *J. Neurocytol.*, vol. 15, 329–336.

PEGINGTON, J. 1986. *Clinical Anatomy in Action*, Vol. 2. *The Head and Neck*. A case history review of clinical anatomy for clinical students and physicians. (Edinburgh: Churchill Livingstone). 180 pp.

PEGINGTON, J. 1986. *The Knee*. A pilot interactive videodisc. Databank of images under external computer control. Produced by University of London Audiovisual Centre, Department of Trade and Industry, and Thorn EMI.

PEREIRA, S. C., STEELE RUSSELL, I. 1985. Prenatal brain damage in the rat: functional and anatomical changes. *Neurosci. Lett.*, vol. 21, S66.

PEREIRA, S. C., STEELE RUSSELL, I., GLICKSTEIN, M. (with Legg, C. R.) 1985. Functional deficits and anatomical sparing after prenatal brain damage in the rat. In *Brain Plasticity, Learning and Memory*, 321–330. B. Will and P. Schmitt (editors). (New York: Plenum).

RANKIN, E. C. C., COOK, J. E. 1986. Topographic refinement of the regenerating retinotectal projection of the goldfish in standard laboratory conditions: a quantitative WGA-HRP study. *Exp. Brain Res.*, vol. 63, 409–420.

REID, S. A. 1986. Effect of mineral content of human bone on in vitro resorption. *Anat. Embryol.*, vol. 174, 225–234.

REID, S. A. 1986. Analysis of the influence of mineral density of human bone upon osteoclastic resorption in vitro. *Bone*, vol. 7, 156.

REID, S. A. (with Howell, P. G. T.) 1986. A microcomputer-based system for rapid on-line stereological analysis in the SEM. *Scanning*, vol. 8, 139–144.

REID, S. A., BOYDE, A. 1985. The tandem scanning reflected light microscope. *Lab. Pract.*, Oct., 61–67.

REID, S. A., BOYDE, A. (with Howard, V., Baddeley, A.) 1985. Unbiased estimation of particle density in the tandem scanning reflected light microscope. *J. Microsc.*, vol. 138, 203–212.

ROMAYA, J., ZEKI, S. 1985. Rotatable, three-dimensional computer reconstruction of the macaque monkey brain. *J. Physiol. (Lond.)*, vol. 371, 25P.

ROSE, F. D., DELL, P. A., LOVE, S. 1985. Doppler shift radar monitoring of activity of rats in a behavioural test situation. *Physiol. Behav.*, vol. 35, 85–87.

ROSE, F. D., DELL, P. A., LOVE, S. 1985. Behavioural consequences of different types of environmental enrichment in the rat. *IRCS Med. Sci.*, vol. 13, 748–749.

ROSE, F. D., LOVE, S., DELL, P. A. 1986. Differential reinforcement effects in rats reared in enriched and impoverished environments. *Physiol. Behav.*, vol. 36, 1139–1145.

ROSENDAAL, M., ADAM, J. 1984. Haemopoiesis by clonal succession? *Blood Cells*, vol. 10, 473–485.

ROSENDAAL, M., ADAM, J. (with Potter, D., Duff, M.) 1986. Assessing cultured colonies automatically. *Leukemia Res.*, vol. 10, 539–547.

SHIPP, S., ZEKI, S. 1985. Segregated output to area V5 from layer 4B of macaque monkey striate cortex. *J. Physiol. (Lond.)*, vol. 369, 32P.

SMITH, A. L., BOYDE, A., JONES, S. J. 1985. Computer simulation of osteoclastic motility during resorptive episodes *in vitro*. *Calcif. Tiss. Int. Suppl.*, vol. 38, S5 18.

STEELE RUSSELL, I. (with Van Hof, M. W., Collewijn, H., Van Der Steen, J.) 1986. Residual vision in optic chiasma-sectioned rabbits. *Behav. Brain Res.*, vol. 20, 140–141.

STEELE RUSSELL, I., JAMES, G. O. (with Van Der Steen, J.) 1985. Permanent changes in eye-head coordination after both unilateral frontal eye field lesions in monkeys and functional recovery. *Behav. Brain Res.*, vol. 16, 230–231.

SWETT, J. E., McMAHON, S. B., WALL, P. D. 1985. Long ascending projections to the midbrain from cells of lamina I and nucleus of the dorsolateral funiculus of the spinal cord of the rat. *J. Comp. Neurol.*, vol. 238, 401–416.

TAYLOR, A. M., JEFFREY, G., LIEBERMAN, A. R. 1986. Subcortical afferent and efferent connections of the superior colliculus in the rat and comparisons between albino and pigmented strains. *Exp. Brain Res.*, vol. 62, 131–142.

VAN DER STEEN, J., STEELE RUSSELL, I., JAMES, G. O. 1985. Visual neglect in primates due to frontal eye field damage: eye and head movement strategies during recovery. *Neurosci. Lett.*, vol. 21, S12.

VAN DER STEEN, J., STEELE RUSSELL, I., JAMES, G. O. 1986. Effects of unilateral frontal eye-field lesions on eye-head coordination in monkey. *J. Neurophysiol.*, vol. 55, 696–714.

VAN HOF, M. W., DE VOS-KORTHALS, W. H., LAGERS-VAN HASELEN, G. C. 1985. The contribution of the rewarded and unrewarded stimulus in two-choice pattern discrimination after a unilateral ablation of the occipital lobe in the rabbit. *Behav. Brain Res.*, vol. 18, 75–78.

VAN HOF, M. W., DE VOS-KORTHALS, W. H., LAGERS-VAN HASELEN, G. C. 1986. Discrimination of flicker gratings of different orientations in the rabbit. *Behav. Brain Res.*, vol. 20, 152–153.

VRBOVÁ, G. (with Duxson, M. J.) 1985. Inhibition of acetylcholinesterase accelerates axon terminal withdrawal at the developing rat neuromuscular junction. *J. Neurocytol.*, vol. 14, 337–363.

VRBOVÁ, G. (with Pette, D.) 1985. Invited review: Neural control of phenotypic expression in mammalian muscle fibers. *Muscle & Nerve*, vol. 8, 676–689.

VRBOVÁ, G. (with Scott, O., Hyde, S. A., Dubowitz, V.) 1985. Effects of chronic low frequency electrical stimulation on normal human tibialis anterior muscle. *J. Neurol. Neurosurg. Psychiat.*, vol. 48, 774–781.

VRBOVÁ, G., LOWRIE, M. B., NAVARETTE, R. 1985. The importance of nerve-muscle interaction for motoneurone and muscle fibre development. In *Proc. Abano Terme Meetings on Rehabilitation: Cell Biology and Clinical Management in Functional Electro Stimulation of Neurones and Muscles*. U. Carraro and C. Angelini (editors), Padova, August 28–30, 1985 (Padova: Cleup Editore). 241–246.

WALL, P. D. (with Nussbaumer, J. C.) 1985. Expansion of receptive fields in the mouse cortical barrelfield after administration of capsaicin to neonates or local application on the infraorbital nerve in adults. *Brain Res.*, vol. 360, 1–9.

WALL, P. D. (with Saade, N., Jabbur, S. J.)1985. Effects of 4-aminopyridine, GABA and bicuculline on cutaneous receptive fields of cat dorsal horn neurones. *Brain Res.*, vol. 344, 356–359.

WALL, P. D., McMAHON, S. B. 1985. Microneuronography and its relation to perceived sensation. A critical review. *Pain*, vol. 21, 209–229.

WALL, P. D., WOOLF, C. J. 1985. Noxious stimulus-evoked increases in the excitability of the flexor reflex in the decerebrate-spinal rat. *J. Physiol. (Lond.)*, vol. 369, 28P.

WALL, P. D., WOOLF, C. J. 1986. The brief and the prolonged facilitatory effects of unmyelinated afferent input on the rat spinal cord are independently influenced by peripheral nerve section. *Neuroscience*, vol. 17, 1199–1205.

WARNER, A. E. 1985. The role of gap junctions in amphibian development. *J. Embryol. Exp. Morphol.*, vol. 89, Suppl., 365–380.

WARNER, A. E., GUTHRIE, S. C. (with Gilula, N. B.) 1984. Antibodies to gap-junctional protein selectivity disrupt junctional communication in the early amphibian embryo. *Nature*, vol. 311, 127–131.

WELLS, G. R., YEO, C. H. 1985. The tectopontine projection in the rabbit investigated by anterograde tracing of HRP and the classically conditioned nictitating response. *Neurosci. Lett.*, vol. 22, S504.

WOOLF, C. J. 1985. Functional plasticity of the flexor withdrawal reflex in the rat following peripheral tissue injury. In *Advances in Pain Research and Therapy*, vol. 9, 193–201. H. L. Fields, R. Dubner and F. Cervero (editors). (New York: Raven Press).

WOOLF, C. J. 1985. Histochemical pharmacology: the effect of morphine on noxious stimulus evoked increases in glycogen phosphorylase activity. *Neurosci. Lett.*, Suppl. 22, S120.

WOOLF, C. J. 1986. The terminal arborization patterns of low mechanothreshold cutaneous afferents innervating the rat hindlimb. *Physiol. Soc.*, March, 1986.

WOOLF, C. J. (with Wiesenfeld-Hallin, Z.) 1985. The systemic administration of local anaesthetics produces a selective depression of C-afferent fibre evoked activity in the spinal cord. *Pain*, vol. 23, 361–374.

WOOLF, C. J. (with Wiesenfeld-Hallin, Z.) 1985. Substance P and calcitonin gene related peptide produce synergistic excitability changes in the spinal cord. *Neurosci. Lett.*, Suppl. 22, S239.

WOOLF, C. J. (with Wiesenfeld-Hallin, Z.) 1985. Substance P and calcitonin gene related peptide synergistically modulate the gain of the nociceptive flexor reflex in the rat. *Neurosci Lett.*, vol. 66, 226–230.

WOOLF, C. J., McMAHON, S. B. 1985. Injury-induced plasticity of the flexor reflex in chronic decerebrate rats. *Neuroscience*, vol. 16, 395–404.

WOOLF, C. J., WALL, P. D. 1986. Morphine sensitive and morphine insensitive actions of C-fibre input on the rat spinal cord. *Neurosci. Lett.*, vol. 64, 221–225.

WOOLF, C. J., WALL, P. D. 1986. The relative effectiveness of C-primary afferent fibres of different origins in evoking a prolonged facilitation of the flexor reflex in the rat. *J. Neurosci.*, vol. 6, 1433–1442.

YEO, C. H., HARDIMAN, M. J. 1985. The role of the cerebellar cortex and inferior olive in a simple form of motor learning. *Behav. Brain Res.*, vol. 16, 236.

YEO, C. H., HARDIMAN, M. J. 1985. Lesions of the inferior olive abolish conditioning of the nictitating membrane response in the rabbit. *Neurosci. Lett.*, vol. 22, S227.

YEO, C. H., HARDIMAN, M. J., GLICKSTEIN, M. 1985. Classical conditioning of the nictitating membrane response of the rabbit. I. Lesions of the cerebellar nuclei. *Exp. Brain Res.*, vol. 60, 87–98.

YEO, C. H., HARDIMAN, M. J., GLICKSTEIN, M. 1985. Classical conditioning of the nictitating membrane response of the rabbit. II. Lesions of the cerebellar cortex. *Ibid.*, 99–113.

YEO, C. H., HARDIMAN, M. J., GLICKSTEIN, M. 1985. Classical conditioning of the nictitating membrane response of the rabbit. III. Connections of cerebellar lobule HVI. *Ibid.*, 114–126.

ZEKI, S. 1985. Colour pathways and hierarchies in the cerebral cortex. In *Central and Peripheral Mechanisms of Colour Vision (Wenner-Gren Center International Symposium Series*, vol. 43), 19–44. D. Ottoson and S. Zeki (editors). (London: Macmillan Press).

ZEKI, S. 1986. The anatomy and physiology of area V6 of macaque monkey visual cortex. *Physiol. Soc.*, July 1986, 65P.

BIOCHEMISTRY

BARLOW, J. H., KONIALIS, C. P., BUTTERWORTH, P. H. W. (with Edwards, Y. H., Povey, S.) 1986. Assignment of the gene determining human carbonic anhydrase, CAI, to chromosome 8. *Ann. Hum. Genet.*, vol. 50, 123–129.

BIRD, M. I., SAGGERSON, E. D. 1985. Interacting effects of L-carnitine and malonyl-CoA on rat liver carnitine palmitoyltransferase. *Biochem. J.*, vol. 230, 161–167.

CHANCE, E. M. (with Williamson, J. R., Kobayashi, K., Cerdan, S., Seeholzer, S.) 1985. Mathematical modelling for calculation of multiple flux parameters of liver and heart metabolism using ^{13}C NMR data. *Abstracts of the 13th International Congress of Biochemistry, Amsterdam, 27–30 August.* Abstract No. 345.

CROMPTON, M. 1985. The regulation of mitochondrial calcium transport in heart. In *Current Topics in Membranes and Transport*, vol. 25, 231–276. A. E. Shamoo (editor). (London and Orlando: Academic Press).

CROMPTON, M., GOLDSTONE, T. P. 1985. The hormonal regulation of mitochondrial calcium. In *Achievements and Perspectives of Mitochondrial Research*, vol. I: *Bioenergetics*, 489–497. E. Quagliariello *et al.* (editors). (Amsterdam: Elsevier, Biomedical Division).

CROMPTON, M., ROOS, I. 1985. On the hormonal control of heart mitochondrial Ca^{2+}. *Biochem. Soc. Trans.*, vol. 13, 667–669.

DILLON, N. O., SPENCER, V. M., BUTTERWORTH, P. H. W. 1985. Transcription of a cloned rainbow trout protamine gene is accurately initiated following transfection into HeLa cells but the majority of the transcripts fail to polyadenylate at the correct site. *Nucl. Acids Res.*, vol. 13, 8715–8727.

DILLON, N. O., SPENCER, V. M., BUTTERWORTH, P. H. W. 1986. Enhancer-dependent expression and processing of transcripts from a cloned trout protamine gene transferred into HeLa cells. *Biochem. Soc. Trans.*, vol. 14, 273–274.

EDWARDS, M. R., BIRD, M. I., SAGGERSON, E. D. 1985. Effects of DL-2-bromopalmitoyl-CoA and bromoacetyl-CoA in rat liver and heart mitochondria. *Biochem. J.*, vol. 230, 169–179.

FOSTER, K. E., ROSEMEYER, M. A. 1986. Microtubule formation and the initial association of tubulin dimers. *FEBS Lett.*, vol. 194, 78–84.

GOLDSTONE, T. P., CROMPTON, M. 1986. β-Adrenergic activation of the Na^{+}-Ca^{2+} carrier in rat liver mitochondria. *Biochem. Soc. Trans.*, vol. 14, 128–129.

HAM, J., JOHNSTON, I. R., WANLESS, C., WELLS, P. 1986. Localisation of the transcript of the CDC7 gene of *Saccharomyces cerevisiae*. *Biochem. Soc. Trans.*, vol. 14, 737.

HARBRON, S. (with Smith, B. W., Lilly, M. D.) 1986. Two-liquid phase biocatalysis: epoxidation of 1.7-octadiene by *Pseudomonas putida*. *Enzyme Microb. Technol.*, vol. 8, 85–88.

HUTCHINSON, W. L., MOWBRAY, J. (with Morris, P. G.) 1986. The molecular structure of a rapidly formed oligomeric adenosine tetraphosphate derivative from rat heart. *Biochem. J.*, vol. 234, 623–627.

KOVACS, B. J., BUTTERWORTH, P. H. W. 1986. The effect of changing the distance between the TATA-box and Cap site by up to three base pairs on the selection of the transcriptional start site of a cloned eukaryotic gene *in vitro* and *in vivo*. *Nucl. Acids Res.*, vol. 14. 2429–2442.

KOVACS, B. J., BUTTERWORTH, P. H. W. 1986. The spatial relationship between the 'TATA-box' and the site of initiation of transcription. *Biochem. Soc. Trans.*, vol. 14, 274–275.

LAWSON, R., MOWBRAY, J. 1986. Purine nucleotide metabolism: the discovery of a major new oligomeric adenosine tetraphosphate derivative in rat heart. *Int. J. Biochem.*, vol. 18, no. 5, 407–413.

LLOYD, A. C., CARPENTER, C. A., SAGGERSON, E. D. 1986. Intertissue differences in the hysteretic behaviour of carnitine palmitoyltransferase in the presence of malonyl-CoA. *Biochem. J.*, vol. 237, 289–291.

MEADOW, P. M., WELLS, P. L. 1985. Antibiotic sensitivity in lipopolysaccharide-defective mutants of *Pseudomonas aeruginosa*. *Chemioterapia*, vol. 4, no. 2, 5–7.

MOWBRAY, J., CRESPO-ARMAS, A. 1985. The rapid physiological control of rat liver oxidative phosphorylation by tri-iodo-L-thyronine. *Biochem. Soc. Trans.*, vol. 13, 746–747.

ROSEMEYER, M. A. (with Mossakowska, D., Dale, J. W.) 1985. Structural investigations of the oxa-2 beta-lactamase. *Abstracts of the 13th International Congress of Biochemistry 25–30 August 1985 Amsterdam*, 497. (Amsterdam: Elsevier).

SAGGERSON, E. D., CARPENTER, C. A. 1986. Carnitine palmitoyltransferase in liver and five extrahepatic tissues in the rat. *Biochem. J.*, vol. 236, 137–141.

SAGGERSON, E. D., RIDER, M. H. 1985. Fatty acids and the control of adipocyte glycerolphosphate acyltransferase by noradrenaline. *Biochem. J.*, vol. 231, 495–496.
SEHMI, D., WILLIAMS, L. G., WILLIAMS, D. J. 1986. Microsomal membrane subfractionation by a lectin affinity method. *FEBS Lett.*, vol. 197, 335–338.
SHEPHARD, E. A. (with Phillips, I. R., Povey, S., Davis, M. B. and others). 1985. A cytochrome P-450 gene family mapped to human chromosome 19. *Ann. Hum. Genet.*, vol. 49, 267–274.
WALKER, A., WILLIAMS, D. J. 1985. An improved assay method for cholesterol-7α-hydroxylase. *Biochem. Soc. Trans.*, vol. 13, no. 4, 778.
WILLIAMS, D. J. (with Groeger, B. K., O'Dell, D. S.) 1985. Partial purification of a major ricin 120 receptor from rat spleen. *Ibid.*, 779.

PHARMACOLOGY

ADAMS, D. J. (with others) 1985. Inhibitors of calcium buffering depress evoked transmitter release at the squid giant synapse. *J. Physiol.*, vol. 369, 145–159.
ASSEM, E. S. K. 1985. Drug Allergy: 1 Mechanisms. In *Textbook of Adverse Drug Reactions*, (3rd edition) 613–633. D. M. Davies (editor). (Oxford University Press).
ASSEM, E. S. K. 1985. Drug Allergy: 2 Tests for detecting drug allergy. *Ibid.*, 634–649.
ASSEM, E. S. K., EZEAMUZIE, I. C. 1985. Histamine-releasing lymphokine: characteristics of its production. *Agents and Actions*, vol. 17, 21–26.
ASSEM, E. S. K., EZEAMUZIE, I. C. 1985. Histamine releasing lymphokine: Preliminary evidence of membrane receptors on basophils. *Ibid.*, 131–137.
ASSEM, E. S. K., EZEAMUZIE, I. C. (with Da Silva Machado, F. R.) 1985. Cardiac anaphylaxis: Part II: The role of prostaglandins, thromboxanes and leukotrienes. *Allergol. et Immunopathol.*, vol. 13, 335–350.
ASSEM, E. S. K. (with others) 1985. Delivery as a cause of exercise-induced anaphylactoid reaction: case report. *Brit. J. Obst. Gyn.*, vol. 92, 1196–1198.
ASSEM, E. S. K., GHANEM, N. S. (with Da Silva Machado, F. R.) 1986. Cardiac mast cells: partial purification of guinea-pig atrial mast cells and release from them of histamine and leukotriene C_4 by immune and non-immune stimuli. *Agents and Actions*, vol. 18, 167–171.
BAILEY, S. J. (with others) 1986. An examination of the pharmacology of two substance P antagonists and the evidence for tachykinin receptor subtypes. *Br. J. Pharmac.*, vol. 87, 79–85.
CANTWELL, M. E., FOREMAN, J. C. 1986. Characteristics of the effect of phorbol esters on rat mast cells: interaction with anti-IgE. *Agents and Actions*, vol. 18, 77–80.
CAPIOD, T., FIELD, A., JENKINSON, D. H., OGDEN, D. C. 1985. Adrenoceptors and the ionic permeability of liver cells. In *Pharmacology of Adrenoceptors*, 135–145. E. Szabadi, C. M. Bradshaw and S. R. Nahorski (editors). (London: Macmillan).
CAPIOD, T., OGDEN, D. C. 1985. Noise analysis of α-adrenergic activated K-conductance in isolated guinea-pig hepatocytes. *J. Physiol.*, vol. 369, 107P.
COATS, R. A. 1985. The effects of adrenoceptor agonists and antagonists on plasma potassium concentration in anaesthetized guinea-pigs, rabbits and rats. *Br. J. Pharmac.*, vol. 86, 827–836.
COLQUHOUN, D. 1986. On the principles of postsynaptic action of neuromuscular blocking agents. In *Hefter's Handbook of Experimental Pharmacology* (VI. 79), 59–113. D. K. Kharkevich (editor). (Berlin: Springer-Verlag).

COLQUHOUN, D., OGDEN, D. C., CACHELIN, A. B. 1986. Mode of action of agonists on nicotinic receptors. In *Ion Channels in Neural Membranes*, 255–273. J. M. Ritchie, R. D. Keynes, and L. Bolis (editors). (New York: Alan R. Liss Inc.).

COLQUHOUN, D. (with Sakmann, B.) 1985. Fast events in single-channel currents activated by acetylcholine and its analogues at the frog muscle end-plate. *J. Physiol.*, vol. 369, 501–557.

COLQUHOUN, D. 1985. Imprecision in presentation of binding studies. *Trends in Pharmacol. Sci.*, vol. 6, 197P.

COLQUHOUN, D. 1986. Structure and function of acetylcholine-recpetor ion channels. *Nature.*, vol. 321, 382–383.

CULL-CANDY, S. G., OGDEN, D. C. 1986. Glutamate and GABA-activated receptor channels in cerebellar neurons of the rat. In *Ion Channels in Neural Membranes*, 297–308. J. M. Ritchie, R. D. Keynes, and L. Bolis (editors). (New York: Alan R. Liss Inc.).

CULL-CANDY, S. G., MATHIE, A. (with Powis, D. A.), 1986. Influence of the α-adrenoceptor agonist clonidine on single acetylcholine channels in bovine chromaffin cells. *J. Physiol.*, vol. 371, 157P.

CULL-CANDY, S. G., MATHIE, A. 1986. Ion channels activated by acetylcholine and GABA in freshly dissociated sympathetic neurones of the rat. *Neurosci. Letts.*, vol. 66, 275–280.

CULL-CANDY, S. G. 1986. Miniature and evoked inhibitory junctional currents and γ aminobutyric acid activated current noise in locust muscle fibres. *J. Physiol.*, vol. 374, 179–200.

CULL-CANDY, S. G., OGDEN, D. C., USOWICZ, M. M. 1986. Patch-clamp of amino acid activated channels in cerebellar neurons of the rat. *Neurosc. Letts. suppl.*, vol. 24, 533P.

DALE, M. M. 1985. A study of neutrophil-mediated cellular cytoxicity. *Ann. Rep. Arth. Rheum. Coun. Res.*, 165–166.

DALE, M. M., OBIANIME, W. 1985. Phorbol myristate acetate causes in guinea-pig lung parenchymal strip a maintained spasm which is relatively resistant to isoprenaline. *FEBS*, vol. 190, 6–10.

DICKENSON, A. H. (with others) 1985. Aspects of sensory processing through convergent neurones. In *Functional Organization of Spinal Afferent Processing*, 467–504. T. L. Yaksh (editor). (New York: Humana Press).

DICKENSON, A. H., KNOX, R., SULLIVAN, A. F. 1985. The effects of intrathecal mu and kappa opiates on nociceptive processing in the rat dorsal horn. *J. Physiol.*, vol. 365, 31P.

DICKENSON, A. H., SULLIVAN, A. P. 1986. Electrophysiological studies on the effects of intrathecal morphine on nociceptive neurones in the rat dorsal horn. *Pain*, vol. 24, 211–222.

DICKENSON, A. H., KNOX, R. 1986. Intrathecal and systemic kappa opioids alter the excitability of convergent neurones in the rat dorsal horn. *Br. J. Pharmac.*, vol. 87, 61P.

DICKENSON, A. H. 1986. A new approach to pain relief? *Nature*, vol. 320, 681–682.

FIELD, A. C., JENKINSON, D. H. 1985. The influence of noradrenaline on the membrane conductance of isolated guinea-pig and rabbit hepatocytes. *J. Physiol.*, vol. 369, 106P.

FOREMAN, J. C. 1985. The role of histamine in inflammation. In *Inflammatory Mediators*, 7–18. G. A. Higgs and T. J. Williams (editors). (London: Macmillan).

FOREMAN, J. C., PIOTROWSKI, W. 1985. Some effects of substance P antagonists on mast cells. In *Tachykinin antagonists – Fernström Symposium*, 405–412. R. Håkanson and F. Sundler (editors). (Amsterdam: Elsevier).

FOREMAN, J. C., PIOTROWSKI, W. (with others) 1985. The ability of thapsigargin and thapsigargicin to activate cells involved in the inflammatory response. *Br. J. Pharmac.*, vol. 85, 705–712.

FOREMAN, J. C., WEBBER, S. E. (and Shelly, R.) 1985. Contraction of guinea-pig lung parenchymal strips by substance P and related peptides. *Arch. Int. Pharmacodyn.*, vol. 278, 193–206.

FOREMAN, J. C., WEBBER, S. E. (with Rising, T. J.) 1985. A study of the histamine H_2-receptor mediating relaxation of the parenchymal lung strip preparation of the guinea-pig. *Br. J. Pharmac.*, vol. 86, 465–473.

FOREMAN, J. C., WEBBER, S. E. (with others) 1985. The binding of ^3H tiotidine to homogenates of guinea-pig lung parenchyma. *Ibid.*, 475–482.

FOREMAN, J. C. (with others) 1985. Histamine release induced by histone and phorbol ester from rat peritoneal mast cells. *Eur. J. Pharm.*, vol. 113, 11–17.

FOREMAN, J. C. 1985. The effects of neuropeptides on mast cells. *Allergy Today*, vol. 2, 55–56.

FOREMAN, J. C., WEBBER, S. E. (with others) 1986. A study of the H_2-receptor for histamine stimulating adenylate cyclase in homogenates of guinea-pig lung parenchyma. *Br. J. Pharmac.*, vol. 87, 37–44.

FOREMAN, J. C., HAYES, N. A. (with others) 1986. Comparison of the histamine releasing action of substance P on mast cells and basophils from different species and tissues. *Int. Arch. Allergy Appl. Immun.*, vol. 79, 413–418.

FOREMAN, J. C., WEBBER, S. E. 1986. Studies on target cells in the pathogenesis of airways hyperreactivity. *Clin, Resp. Physiol.*, vol. 22, 175–177.

GATER, P. R., WEBBER, S. E., JORDAN, C. C., HAYES, N. A., FOREMAN, J. C. (with others) 1985. Some studies of the action of betahistine on H_1 and H_2 receptors for histamine. *Agents and Actions*, vol. 18, 342–350.

GATER, P. R., HAYLETT, D. G., JENKINSON, D. H. 1985. Neuromuscular blocking agents inhibit receptor-mediated increases in the potassium permeability of intestinal smooth muscle. *Br. J. Pharmac.*, vol. 86, 861–868.

HEALICON, R. M., FOREMAN, J. C. 1985. Characteristics of histamine release from rat mast cells in relation to the valency of the stimulating ligand. *Immunology*, vol. 57, 611–615.

MARSHALL, C. G., OGDEN, D. C. 1986. The concentration-response relationship for carbachol activation of single channels at the frog endplate. *Br. J. Pharmac.*, vol. 87 140P.

OGDEN, D. C., COLQUHOUN, D. 1985. Ion channel block by acetylcholine, carbachol and suberyldicholine at the frog neuromuscular junction. *Proc. R. Soc. Lond. B*, vol. 225, 329–355.

PIOTROWSKI, W., FOREMAN, J. C. 1985. On the actions of substance P, somatostatin and vasoactive intestinal polypeptide on rat peritoneal mast cells and in human skin. *Naunyn Schmiedeberg's Arch. Pharmac.*, vol. 331, 364–368.

PIOTROWSKI, W., FOREMAN, J. C. 1986. Some effects of calcitonin gene-related peptide in human skin and on histamine release. *Br. J. Dermatol.*, vol. 114, 37–46.

STRONG, P. N. (with others) 1985. The influence of divalent cations on the phospholipase-independent action of β-bungarotoxin at frog neuromuscular junctions. *J. Physiol.*, vol. 363, 169–179.

STRONG, P. N. (with others) 1985. The biphasic action of crotoxin on spontaneous release of transmitter at the frog neuromuscular junction. *Toxicon.*, vol. 23, 552P.

STRONG, P. N. (with others) 1985. The effects of an intraventricular injection of apamin in the anaesthetised rat. *Ibid.*, 602P.

STRONG, P. N. 1985. Enzymatic properties of β-bungarotoxin and a comparison with Bungarus multicinctus phospholipase A. *Ibid.*, 611P.

STRONG, P. N. (with others) 1985. Internalisation of apamin by liver cells. *Ibid.*, 612P

WEBSTER, R. A. (with others) 1986. Third Report on the Organisation of Pharmacology in Great Britain. *Br. J. Pharmac.*, vol. 87, 463–474.

PHYSIOLOGY

ALLEN, D. G., KENTISH, J. C. 1985. The cellular basis of the length-tension relation in cardiac muscle. *J. Mol. Cell. Cardiol.*, vol. 17, 821–840.

ALLEN, D. G., EISNER, D. A., WRAY, S. 1985. Two hundred years of the foxglove. *Nature (News and Views)*, vol. 316, 674–675.

ALLEN, D. G., EISNER, D. A., WRAY, S. 1985. Birthday present for digitalis. *Ibid.*, 674–675.

ALLEN, D. G., SMITH, G. L. (with Nichols, C. G.) 1985. The effect of diastolic length on calcium transients in isolated ferret ventricular muscle. *J. Physiol.*, vol. 365, 57P.

ALLEN, D. G., EISNER, D. A., SMITH, G. L., WRAY, S. 1985. The effects of an extract of the foxglove (Digitalis Purpurea) on tension and intracellular calcium concentration in the ferret papillary muscle. *Ibid.*, 65P.

ALLEN, D. G., EISNER, D. A., VALDEOLMILLOS, M. 1985. The use of aequorin to measure intracellular calcium in voltage-clamped cardiac Purkinje fibres. *Ibid.*, 7P.

ALLEN, D. G., SMITH, G. L. 1985. The first calcium transient following shortening in isolated ferret ventricular muscle. *J. Physiol.*, vol. 366, 83P.

ALLEN, D. G., KENTISH, J. C. 1985. The effects of length changes on the myoplasmic calcium concentration in skinned ferret ventricular muscle. *Ibid.*, 67P.

ALLEN, D. G. 1985. The role of activation processes in the length-tension relation of cardiac muscle. *Cardiovas. Res.*, vol. 19, 516.

ALLEN, D. G., SMITH, G. L. 1985. Intracellular calcium in metabolically depleted ferret ventricular muscle during exposure to cyanide and its removal. *J. Physiol.*, vol. 369, 92P.

ATTWELL, D. 1985. Phototransduction changes focus. *Nature (News and Views)*, vol. 317, 14–15.

ATTWELL, D. (with Ashmore, J.) 1985. Models for electrical tuning in hair cells. *Proc. R. Soc. B.*, vol. 226, 325–344.

ATTWELL, D. (with Gray, P.) 1985. Kinetics of light-sensitive channels in vertebrate (axolotl) rods. *Neurosci. Letts. Suppl.*, vol. 22, 217.

ATTWELL, D. (with Wilson, M., Wu, S. M.) 1985. The effect of light on the spread of signals through the rod network of the salamander (Ambystoma) retina. *Brain Res.*, vol. 343, 79–88.

ATTWELL, D., BREW, H., MOBBS, P. 1985. Electrophysiology of the Müller cell network in the axolotl retina. *J. Physiol.*, vol. 369, 33P.

ATTWELL, D., BREW, H., MOBBS, P. (with Gray, P.) 1986. Single potassium channels in Müller cells of the salamander retina. *J. Physiol.*, vol. 371, 35P.

ATTWELL, D., BREW, H., MOBBS, P., TESSIER-LAVIGNE, M. (with Wilson, M.) 1985. Use of patch-clamp recording to study Müller cells and bipolar cells isolated from, or in slices of the axolotl retina. *J. Physiol.*, vol. 365, 4P.

ATTWELL, D., MOBBS, P., TESSIER-LAVIGNE, M. (with Wilson, M.) 1985. Membrane currents in depolarizing bipolar cells recorded by whole-cell patch-clamping in living retinal slices from the axolotl retina. *Ibid.*, 34P.

ATTWELL, D., MOBBS, P., TESSIER-LAVIGNE, M. (with Wilson, M.) 1986. Noise changes associated with the action of glutamate on retinal bipolar cells from the salamander (Ambystoma mexicanum) retina. *J. Physiol.*, vol. 371, 39P.

BAKER, J. R., STEPHENS, J. A. (with Datta, A. K.) 1985. New technique to assess the ongoing short term-synchronization in individual motor units during different voluntary movements in man. *J. Physiol.*, vol. 371, 19P.

BANKS, B. E. C. (with Shipolini, R. A.) 1986. Chemistry and pharmacology of honey-bee venom. In *Venom of the Hymenoptera Biochemical, Pharmacological and Behavioural aspects*, 329–416. Tom Piek (editor). (London: Academic Press).

BARANOWSKI, R., LYNN, B. 1985. Receptive field size of hair follicle afferents in rats treated neonatally with capsaicin. *Brain Res.*, vol. 338, 395–397.

BINDMAN, L., ELLAWAY, P. 1985. *Multiple Choice Questions in Neurophysiology, with answers and explanatory comments.* (London: Edward Arnold (Publishers) Ltd.). 93 pp.

BINDMAN, L. J., PRINCE, C. A. 1986. Persistent changes in excitability and input resistance of cortical neurons in the rat, 291–305. D. L. Alkon and C. D. Woody (editors). (New York and London: Plenum Press).

BINDMAN, L. J., MEYER, T., PRINCE, C. A. 1985. Intracellular measurements of the electrical properties of neurones in the cerebral cortex of the rat: comparative data from slices *in vitro* and from the anaesthetized animal. *J. Physiol.*, vol. 365, 15P.

BISCOE, T. J., DUCHEN, M. R., WILSON, M. G. A. 1985. Use of the RML 380Z microcomputer for on-line testing of primary afferent terminal excitability in the mouse spinal cord *in vitro*. *Ibid.*, 2P.

BOLSOVER, S. R. (with Brown, J. E., Goldsmith, T. H.) 1986. Intracellular pH of *Limulus* ventral photoreceptor cells: measurement with phenol red. In *Optical Methods in Cell Physiology*, 285–310. P. DeWeer and B. M. Salzberg (editors). (New York: J. Wiley and Sons).

BOLSOVER, S. R. (with Spector, I.) 1986. Measurements of calcium transients in the soma, neurite and growth cone of single cultured neurons. *J. Neurosci*, vol. 6, 1934–1940.

BOLSOVER, S. R. 1986. Two components of voltage dependent calcium influx in mouse neuroblastoma cells: measurement with arsenazo III. *J. Gen. Physiol.*, vol. 88, 149–165.

BREW, H., ATTWELL, D. 1985. Is the potassium channel distribution in glial cells optimal for spatial buffering of potassium? *Biophys. J.*, vol. 48, 843–847.

BRUCE, S. A. PHILLIPS, S. K., WOLEDGE, R. C. 1986. Isometric force in maximum voluntary contractions related to an estimate of the cross-sectional area of adductor pollicis in the human subject. *Proc. Physiol. Soc.*, vol. 372, 31P.

BRUCE, S. A., PHILLIPS, S. K., WOLEDGE, R. C. 1986. Apparatus for measuring force of adduction of the thumb, and for measuring profiles of the hand in human subjects. *Ibid.*, 9P.

CAVANAGH, M. E., WARREN, A. 1985. The distribution of native albumin of foreign albumin injected into lateral ventricle of prenatal and neonatal rat forebrains. *Anat. Embryol.*, vol. 172, 345–351.

CAVANAGH, M. E., WARREN, A. 1985. The distribution of native and foreign albumin injected into lateral ventricles of prenatal and neonatal rat forebrain. *J. Anat.*, vol. 140, 521.

CROSSLEY, R. (with Holbertson, D. V.) 1985. Assembly of 2.5 nm filaments from giardin, a protein associated with cytoskeleton microtubules in *Giardia*. *J. Cell. Sci.*, vol. 78, 205–231.

CROSSLEY, R. (with Marshall, J., Clark, J. T., Holbertson, D. V.) 1985. Immunocytochemical differentiation of microtubules in the cytoskeleton of *Giardia lamblia* using monoclonal antibodies to tubulin and polyclonal antibodies to associated low molecular weight proteins. *J. Cell. Sci.*, vol. 80, 233–252.

CROSSLEY, R., SWANN, K., WHITAKER, M. J. 1986. Intracellular free calcium concentration and pronuclear movement in sea urchin eggs. *Eur. J. Cell. Biol.*, vol. 40 (S13) 8.

DAVEY, N. J., ELLAWAY, P. H. 1985. A dorsolateral spinal pathway controlling the pattern of gamma motoneurone discharge in the cat. *J. Physiol.*, vol. 365, 20P.

DAVEY, N. J., ELLAWAY, P. H. 1985. A reticulo-spinal tract that prevents synchrony of discharge between gamma motoneurones in the cat. *Abstr. Soc. Neurosci.*, vol. 11, 127.

DAVEY, N. J., ELLAWAY, P. H. 1985. The nature of the reflex coupling between skin afferents and gamma motoneurones in the cat. *J. Physiol.*, vol. 366, 127P.

DAWSON, M. J., WRAY, S. 1986. Nuclear magnetic resonance spectroscopy. In *Physics in Medicine and Biology Encyclopaedia*, 544–552. T. F. McAinsh (editor). (Oxford: Pergamon Press).

DAWSON, M. J., WRAY, S. (with Spurway, N. C.) 1985. A ^{31}phosphorus (P) nuclear magnetic resonance (NMR) study of isolated rabbit arterial muscle. *J. Physiol.*, vol. 365, 72P.

DAWSON, M. J., WRAY, S. 1985. The effects of pregnancy and parturition on phosphorus metabolites in rat uterus studied by ^{31}P nuclear magnetic resonance. *J. Physiol.*, vol. 368, 19–31.

DUCHEN, M. R., BISCOE, T. J. 1985. Inhibition in the spinal cord of the normal and *spastic* mutant mouse *in vitro*. *Amer. Soc. Neurosci. Abst.*, vol. 11, 216.

DUCHEN, M. R., BISCOE, T. J. (with Burton, N. R.) 1985. An intracellular study of the interactions of N-methyl-DL-aspartate with ketamine in the mouse hippocampal slice. *Brain Res.*, vol. 342, 149–153.

DZIEGIELEWSKA, K. M., SAUNDERS, N. R. (with Hinds, L. A., Tyndale-Biscoe, C. H.) 1984. The tammar wallaby (Macropus eugenii): a model for studies of early development of the nervous system. *J. Physiol.*, vol. 351, 26P.

DZIEGIELEWSKA, K. M., SAUNDERS, N. R. (with Soreq, H.) 1985. Messenger ribonucleic acid (mRNA) from developing rat cerebellum directs *in vitro* synthesis of plasma proteins. *Dev. Brain Res.*, vol. 23, 259–267.

DZIEGIELEWSKA, K. M., SAUNDERS, N. R. (with Møllgård, K., Soreq, J., Zakut, H.) 1985. mRNA expession and localization of plasma proteins in human fetal brain. *J. Physiol.*, vol. 365, 54P.

DZIEGIELEWSKA, K. M., SARANTIS, M. E. P., SAUNDERS, N. R.(with Hinds, L. A., Tyndale-Biscoe, C. H.) 1986. Proteins in cerebrospinal fluid and plasma of the pouch young tammar wallaby (Macropus eugenii) during development. *Comp. Biochem. Physiol.*, vol. 83B, no. 3, 561–567.

DZIEGIELEWSKA, K. M., SAUNDERS, N. R. (with others) 1986. Synthesis of plasma proteins in fetal, adult and neoplastic human brain tissue. *Dev. Biol.*, vol. 115, 93–104.

EISNER, D. A., VALDEOLMILLOS, M. (with Lederer, W. J., Cannell, M. B.) 1986. Electrophysiological effects of cardiac glycosides. In *Cardiac Glycosides 1785–1985 Biochemistry, Pharmacology, Clinical Relevance*, 69–78. E. Erdmann, E. Greef and J. C. Skou (editors). (New York: Springer Verlag).

EISNER, D. A., VALDEOLMILLOS, M. 1985. The mechanism of the increase of tonic tension produced by caffeine in sheep cardiac purkinje fibres. *J. Physiol.*, vol. 364, 313–326.

EISNER, D. A., VALDEOLMILLOS, M. 1985. Measurement of intracellular Ca oscillations from one cell in a sheep purkinje fibre. *J. Physiol.*, vol. 365, 56P.

EISNER, D. A., VALDEOLMILLOS, M. 1985. Variability of systolic intracellular calcium concentration in calcium-overloaded sheep purkinje fibres. *J. Physiol.*, vol. 366, 81P.

EISNER, D. A., VALDEOLMILLOS, M. (with Cannell, M. B., Lederer, W. J.) 1985. The effects of membrane potential on intracellular Ca concentration in voltage-clamped sheep cardiac purkinje fibres in Na-free solutions. *J. Physiol.*, vol. 369, 90P.

EISNER, D. A., VALDEOLMILLOS, M. 1986. A study of intracellular calcium oscillations in sheep cardiac purkinje fibres measured at the single cell level. *J. Physiol.*, vol. 372, 539–556.

EISNER, D. A., VALDEOLMILLOS, M. 1986. Measurement of intracellular calcium during the development and spontaneous relaxation of tonic tension in sheep cardiac purkinje fibres. *J. Physiol.*, vol. 375, 269–281.

FALK, G. 1985. The transmission of rod signals to horizontal and bipolar cells. In *Neurocircuitry of the Retina*, 34–50. A. Cajal memorial, A. Gallego and P. Gouras (editors). (New York: Elsevier).

FALK, G., SHIELLS, R. A. 1986. Spider toxin closes open channels at on-bipolar cells and antagonizes glutamate at rod horizontal cells. *Proc. XXX Congr. International Union Physiol. Sci., Vancouver, July*. 387.

FALK, G., SHIELLS, R. A. 1986. Specialized glutamate receptors for retinal rod signals. *Proc. Satellite Symp. on Excitatory Amino Acids, Banff, July*. 34.

FALK, G. 1986. The Visual System. Review of *MBL Lectures in Biology*., vol. 5, A. Fein and J. S. Levine (editors). *Quart. J. Exp. Physiol.*, vol. 71, 331–332.

FELGATE, T. C. G., GARDNER-MEDWIN, A. R. 1985. Oxygen electrodes for use on the surface of brain tissue subjected to pressure during neurosurgery. *J. Physiol.*, vol. 365, 13P.

FLEMING, J. R., STEPHENS, J. A. (with Datta, A. K.) 1985. Effect of central nervous system lesions on the synchronization between motor unit discharge during voluntary contracts in human first dorsal interosseous muscle. *Ibid.*, 19P.

FLEMING, J. R., STEPHENS, J. A. (with Datta, A. K., Hortobagyi, T.) 1985. Short term synchronization of high threshold motor units in human first dorsal interosseous muscle recorded during steady voluntary isometric contracts. *J. Physiol.*, vol. 366, 22P.

FLEMING, J. R., STEPHENS, J. A. (with Datta, A. K.) 1985. The effect of stroke on synchronization of human motor unit firing in large flexor and extensor muscles in the leg and a small hand muscle. *J. Physiol.*, vol. 369, 29P.

FORSLING, M. L. (with Gussman, A.) 1986. *Clinical Neuroendocrinology*. (London: Croom Helm.) 206 pp.

FORSLING, M. L. 1986. Regulation of oxytocin secretion. In *Current Topics in Neuroendocrinology, vol. 16, Neurobiology of Oxytocin*, 19–53. A. Cyantes and D. Pfaff (editors). (Helge: Springer Verlag).

FORSLING, M. L. 1985. Measurement of vasopressin in body fluids. In *Posterior Pituitary*, 1. P. D. Bayliss and P. L. Padfield (editors). (New York: Marcel Dakker Inc.).

FORSLING, M. L. 1986. The effect of naloxone on the vasopressin response to centrally administered hypertonic sodium chloride. *J. Physiol.*, vol. 372, 67P.

FORSLING, M. L. (with Brimble, M. J.) 1985. The role of oxytocin in salt and water balance. In *Oxytocin*, 167–175. A. Robinson and J. Amico (editors). (Amsterdam: Elsevier).

FORSLING, M. L., MATZIARI, C. 1985. The effects of naloxone and haloperidol on the vasopressin response to a hypertonic stimulus in conscious rats. *J. Physiol.*, vol. 369, 122P.

FORSLING, M. L., PEYSNER, K. (with Al-Sendi, M., Khan, M.) 1986. Fluid balance in cycling rats and rats treated with oestradial benzoate. *J. Physiol.*, vol. 371,189P.

FORSLING, M. L., PEYSNER, K. 1985. Water metabolism and vasopressin secretion in ovariectomised and oestradial treated rats. *J. Endocrinol.*, vol. 107. (Suppl.) Abstract 20.

FORSLING, M. L., RUNNALLS, M. E. 1985. Method for recording patterns of drinking in the conscious rat. *J. Physiol.*, vol. 369, 17P.

FORSLING, M. L. (with McDonald, F., Elledorff, F., Beerman, U.) 1986. Effect of haemorrhage on plasma lysine vasopressin and the cardiovascular responses to vasopressin in the pig fetus. *Q. J. Exp. Physiol.*, vol. 71, 267–275.

FORSLING, M. L. (with MacGregor, G. A., Sagnella, G. A.) 1986. A comparison of the vasopressin response to saline infusion and to change in dietary sodium in the human. *J. Physiol.*, vol. 377, 69P.

FORSLING, M. L. (with Melville, R. J., Frizis, H. I., LeQuesne, L. P.) 1985. The stimulus for vasopressin release during laparoscopy. *Surg. Obstet. and Gynec.*, vol. 61, 253–256.

FORSLING, M. L. (with Melville, R. J., Frizis, H. I., LeQuesne, L. P.) 1985. The stimulus for vasopressin release during elective intra-abdominal operations. *Br. J. Surg.*, vol. 72, 979–982.

FORSLING, M. L. (with Olsson, J. E., Lindwall, B., Akerlung, M.) 1985. The cerebral fluid arginine vasopressin in Parkinson's disease dementia and other degenerative disorders. *VIII Int. Symp on Parkinson's Disease*. 43.

FORSLING, M. L. (with Parvizi, N.) 1985. The vasopressin response to microinjections of noradrenaline into the brain of the conscious pig. *Acta Endocrinol.*, vol. 109, 330–334.

FORSLING, M. L. (with Trewhella, M., Rickards, D., Dawson, P.) 1986. Dehydration, antidiuretic hormone. *Radiology*, vol. 86, 130.

FORSLING, M. L. (with Walker, B. J., Evans, P. A., Nelstrop, G. A.) 1985. Somatostatin and water excretion in man. An intrarenal Action. *CLin. Endocrinol.*, vol. 23, 169–174.

FORSLING, M. L. (with others) 1985. Osmotic thirst and vasopressin release in humans: a double blind crossover study. *Am. J. Physiol.*, vol. 248, R645–640.'

FRY, J. P., PHELAN, P. P. 1986. Interactions of glycine receptor ligands in the normal mouse spinal cord. *J. Physiol.*, vol. 373, 21P.

GARDNER-MEDWIN, A. R. (with Bouillin, D. J.) 1985. Platelet function during spreading depression: implications for migraine. In *Migraine: Clinical and Research Advances. Proc. 5th Int. Migraine Symp. London 1984*, 126–129. F. Clifford Rose (editor). (Basel: Karger).

GARDNER-MEDWIN, A. R. 1985. The space constant for glial potassium buffering in the isolated frog brain. *J. Physiol.*, vol. 365, 52P.

GARDNER-MEDWIN, A. R. 1985. Potential challenge from glia. *Nature (News and Views)*, vol. 315, 181.

GARDNER-MEDWIN, A. R. 1985. Factors affecting the optimal electrophysiological parameters for K^+ buffering by glial cells. *Neurosci. Letts. Suppl.*, vol. 22, 413.

GARDNER-MEDWIN, A. R. 1985. Spreading depression and migraine. *Migraine News*, vol. 1, 7–8.

GARDNER-MEDWIN, A. R. 1986. Device to prevent vehicle drivers falling asleep. *J. Physiol.*, vol. 371, 22P.

GARDNER-MEDWIN, A. R., RASTEGAR, K. 1986. Independent binocular displays on a microcomputer screen. *J. Physiol.*, vol. 371, 23P.

HARRISON, P. J. 1985. An interneuronal system contributing to the coordination of the cat hindlimb. In *Coordination of Motor Behaviour*, 163–179, B. M. H. Bush and F. Clarac (editors). (Society for Experimental Biology Seminar 24: Cambridge University Press).

HARRISON, P. J. (with Jack, J. J. B., Kullmann, D. M.) 1985. The components of monosynaptic excitatory post-synaptic potentials evoked in cat lumbosacral motoneurones by impulses in descending fibres. *J. Physiol.*, vol. 365, 32P.

HARRISON, P. J. (with Jack, J. J. B., Kullmann, D. M.) 1985. Quantal analysis of descending monosynaptic EPSPs in cat spinal motoneurones. *Neurosci. Lett. Suppl.*, vol. 22, S233.

HARRISON, P. J. (with Jack, J. J. B., Kullmann, D. M.) 1985. Independence of quantal size (recorded at the soma) and synaptic location of descending monosynaptic excitatory postsynaptic potentials in cat spinal motoneurones. *J. Physiol.*, vol. 369, 25P.

HARRISON, P. J. (with Jankowski, E.) 1985. Sources of input to interneurones mediating group I non-reciprocal inhibition of motoneurones in the cat. *J. Physiol.*, vol. 361, 379–401.

HARRISON, P. J. (with Jankowski, E.) 1985. Organisation of input to the interneurones mediating group I non-reciprocal inhibition of motoneurones in the cat. With an Appendix by P. J. Harrison. *Ibid.*, vol. 403–418.

HARRISON, P. J. (with Jankowska, E., Zytnicki, D.) 1985. Electrophysiological evidence that interneurones located in lamina VIII of the spinal cord mediate crossed reflexes in the cat. *J. Physiol.*, vol. 358, 33P.

HARRISON, P. J. (with Jankowska, E., Zytnicki, D.) 1986. Lamina VIII interneurones interposed in crossed reflex pathways in the cat. *J. Physiol.*, vol. 371, 174–166.

HUXLEY, A. F. (with Ford, L. E., Simmons, R. M.) 1985. Tension transients during steady shortening of frog muscle fibres. *J. Physiol.*, vol. 361, 131–150.

KATZ, B. 1985. Hirmforschung am froschei? *Naturwissenschaftliche Rundschau.*, vol. 38, 405–410.

KATZ, B. 1986. Bayliss-Starling Memorial Lecture 1985. Reminiscences of a Physiologist, 50 years after? *J. Physiol.*, vol. 370, 1–12.

KENTISH, J. C. (with others) 1986. Comparison between the sacromere length-force relations of intact and skinned trabeculae from rat right ventricle: Influence of Ca^{2+} concentration on these relations. *Circ. Res.*, vol. 58, 755–768.

KENTISH, J. C. 1986. The effects of inorganic phosphate and creatine phosphate on force production in skinned muscles from rat ventricle. *J. Physiol.*, vol. 370, 585–604.

NIEMAN, C. J., EISNER, D. A. 1985. Effects of caffeine, tetracaine and ryanodine on calcium-dependent oscillations in sheep cardiac purkinje fibres. *J. Gen Physiol.*, vol. 86, 877–889.

REYNOLDS, M. L. DZIEGIELEWSKA, K. M., SAUNDERS, N. R. (with Cavanagh, M. E., Hinds, L. A., Tyndale-Biscoe, C. H.) 1985. Postnatal development of the telencephalon of the tammar wallaby (Macropus eugenii): An accessible model of neocortical differentiation. *Anat. Embryol.*, vol. 173, 81–94.

SARANTIS, M. E. P., SAUNDERS, N. R. 1986. An immunocytochemical demonstration of α_2HS-glycoprotein in the developing neocortex of the rat. *Neurosci. Letts.*, vol. 65, 346–350.

SAUNDERS, N. R. (with Møllgård, K.) 1984. Development of the blood-brain barrier. *J. Dev. Physiol.*, vol. 6, 45–57.

SAUNDERS, N. R. (with Wakeford, R., Lyon, J., Evered, D.) Where do medically qualified researchers come from? *The Lancet* (August) 262.

SAUNDERS, N. R. 1986. Development of human blood-CSF-brain barrier. *Develop. Med. Child Neurol.*, vol. 28, 86.

SHIELLS, R. A., FALK, G. (with Haghshingh, S.) 1986. Sontophoretic study of the action of excitable amino acids on rod horizontal cells of the dogfish retina. *Proc. R. Soc. B*, vol. 227, 121–135.

STEPHENS, J. A. 1985. Feedback and motor control in man. In *Feedback and Motor Control in Invertebrates and Vertebrates*, Ch. 7. W. J. P. Barnes (editor). (Glasgow: Glasgow University).

STEPHENS, J. A. 1985. Motor unit synchronization and reflexes studied in man. In *The Human Motor Unit, Nordic Research Association, Umea.* Section VII.

STEPHENS, J. A. 1985. Motor unit synchronization studied in man. In *5th International Symposium on Motor Control.* N. Tankov (editor). *Bulgar. Acad. Sci. Sofia, May 1985.* 48.

STEPHENS, J. A. (with Rowlandson, P. H.) 1985. Maturation of cutaneous reflex resonses recorded in the lower limb in man. *Dev. Med. Child. Neurol.*, vol. 27, 448–454.

STEPHENS, J. A. (with Rowlandson, P. H.) 1985. Cutaneous reflex responses recorded in children with various neurological disorders. *Ibid.*, 425–433.

SUTTON, P. M. I., TAGGART, P. (with Donaldson, R. M.) 1985. 'd-sotalol: a new potent class III anti-arrhythmic agent'. *Clin. Sci.*, vol. 69, 631–636.

SUTTON, P. M. I. (with others) 1986. Use of monophasic action potential recordings during routine coronary-artery bypass surgery as an index of localised myocardial ischaemia. *Lancet*, 1462–1465.

SWANN, K., WHITAKER, M. J. (1985. Stimulation of the Na/H exchanges of sea urchin eggs by phabal ester. *Nature*, vol. 314, 274–277.

SWANN, K. 1986. Inositol – (1,4,5) – triphosphate and calcium release at fertilization in sea urchin eggs. *J. Physiol.*, vol. 365, 61P.

TESSIER-LAVIGNE, M., MOBBS, P., ATTWELL, D. 1985. Lead and mercury toxicity and the rod light response. *Investigative Ophthalmology*, vol. 26, 1117–1123.

WHITAKER, M. J. (with Zimerberg, J.) 1985. Irreversible swelling of secretary granules during excytosis caused by calcium. *Nature*, vol. 315, 581–584.

WHITAKER, M. J. 1985. Polyphosphoinositide hydrolysis is associated with exocytosis in adrenal medullary cells. *FEBS Lett.*, vol. 182, 119–124.

WHITAKER, M. J., CIAPA, B. 1985. Two phases of inositol polyphosphate and diacylglycerol production at fertilisation. *FEBS Lett.*, vol. 195, 347–351.

WILKIE, D. R. 1985. Thermodynamics, Classical. In *Physics in Medicine and Biology Encylopaedia*, 817–818. T. F. McAinish (editor). (Oxford: Pergamon Press).

WILKIE, D. R. (with Griffiths, R. D., Cady, E. B., Edwards, R. H. T.) 1985. Muscle energy metabolism in Duchenne dystrophy studied by ^{31}P NMR. Controlled trials show no effect of allopurinol or ribose. *Muscle and Nerve*, vol. 8, 760–767.

WILKIE, D. R. 1986. Muscle function. In *A Historical View; in Human Muscle Power*. R. J. Jones (editor). (Human Kinetics Publishers Inc. Champaign Ill, 61820, USA).

WILKIE, D. R. 1986. Profound hypophosphataemia in patients collapsing after a 'fun run'. *Brit. Med. J.*, vol. 292, 692.

WILSON, M. G. A., WOLEDGE, R. C. (with Rall, J. A.) 1986. Variation in tetanus force production per cross-sectional area in single fibres from frog skeletal muscle. *J. Physiol.*, vol. 371, 169P.

WRAY, S., EISNER, D. A., ALLEN, D. G. 1985. Two hundred years of the foxglove. *Med Hist. Suppl.* No. 5, 132–150.

WRAY, S. (with Tofts, P.) 1985. A simple direct method for measuring concentrations of phosphorus containing metabolites *in vivo* using nuclear magnetic resonance (NMR). *J. Physiol.*, vol. 365, 12P.

WRAY, S. 1986. A ^{31}phosphorus nuclear magnetic resonance study of the regulation of intracellular pH following changes in extracellular pH in rat uterine smooth muscle *J. Physiol.*, vol. 373, 81P

WRAY, S. (with Tofts, P.) 1986. Direct *in vivo* measurement of metabolite concentrations using ^{31}P nuclear magnetic resonance spectroscopy. *Biochemica Biophysica Acta.*, vol. 886, 390–405.

WOLEDGE, R. C. (with Smith, S. J.) 1985. Thermodynamic analysis of calcium binding to frog parvalbumin. *J. Muscle Res. and Cell Mot.*, vol. 6, 757–768.

WOLEDGE, R. C. (with Peckham, M.) 1986. Labil heat and changes in rate of relaxation of frog muscles. *J. Physiol.*, vol. 374, 123–135.

FACULTY OF CLINICAL SCIENCES

BIOCHEMICAL PATHOLOGY

BOROVANSKY, J., RILEY, P. A., VALKOVA, E., NECAS, E. 1985. The effect of zinc on mouse melanoma growth *in vitro* and *in vivo*. *Neoplasma*, vol. 32, 401–406.

D'ARCY DOHERTY, M., COHEN, G. M., GRANT, T. W., NAISH, S., RILEY, P.A. 1985. Metabolism of 1-Naphthol by Tyrosinase. *Biochem. Pharmacol.*, vol. 34, 3167–3172.

GRIFFITHS, J. B., McENTEE, I. D., ELECTRICWALA, A., ATKINSON, A., SUTTON, P. M., NAISH, S., RILEY, P. A. 1985. The production and properties of a tissue plasminogen activator from normal epithelial cells grown in microcarrier cultue. *Develop. Biol. Std.*, vol. 60, 439–446.

GRIFFITHS, J. B., RILEY, P. A. 1985. Cell biology: basic concepts. *Animal Cell Biotechnology*, vol. 1, 17–48.

HEPBURN, P. J., OLIVER, R. T. D., RILEY, P. A., HILL, B. T., MASTERS, J. R. W. 1985. Comparison of the cytotoxic activities of chemotherapeutic drugs using a human bladder cancer cell line. *Urological Res.*, vol. 13, 27–34.

JAYARAJ, A. P., REES, K. R., TOVEY, F. I., WHITE, J. S. 1986. A molecular basis of peptic ulceration due to diet. *Br. J. exp. Path.*, vol. 67, 149–155.

JAYARAJ, A. P., TOVEY, F. I., RILEY, P. A., CLARK, C. G. 1985. Quantitative changes in mass cells and microvascular pattern associated with dietary gastric ulceration in rats. *Microcirculation, Endothelium and Lympathics*, vol. 2, 643–655.

RILEY, P. A. 1985. Radicals and melanomas. *Phil. Trans. R. Soc. Lond.*, vol. B311, 679–689.

TERRY, G. M., HO-TERRY, L., WARREN, R. C., RODECK, C. H., COHEN, A., REES, K. R. 1986. First trimester prenatal diagnosis of congenital rubella: a laboratory investigation. *Brit. Med. J.*, vol. 292, 930–933.

WHARTON, S. A., RILEY, P. A. 1986. The suppression of endogenous protein degradation by fractions of foetal calf serum: dialysed serum is less able to suppress degradation in aged cells. *Cell Biochemistry & Function*, vol. 4, 189–195.

CLINICAL PHARMACOLOGY

CROOK, T. R., McLEAN, A. E. M. (with Souhami, R. L.) 1985. DNA crosslinks in sensitive leukaemia calls exposed to cyclophosphamide activated *in vitro*. *Brit. J. Pharmac.*, vol. 84, no. 3, 128P.

CROOK, T. R., WHYMAN, G. D., McLEAN, A. E. M. (with Souhami, R. L.) 1985. Potentiation of cytotoxicity of cyclophosphamide in human leukaemia cells depleted intracellular glutathione by pretreatment with D-L buthionine S-R sulphoximine. *Human Toxicol.*, vol. 4, 540–541.

GRAHAM, M. I., WEEKS, M. S., SHAW, I. C. 1985. Proposed mechanism of ifosphamide induced nephrotoxicity. *Human Toxicol.*, vol. 4, no. 5, 545.

HUE, D. P., BEALES, D., McLEAN, A. E. M. 1985. EDTA enters isolated hepatocytes and protects them against injury. *Brit. J. Pharmac.*, vol. 84, 121.

HUE, D. P., GRIFFITH, K. L., McLEAN, A. E. M. 1985. Hepatocytes in primary culture become susceptible to paracetamol injury after depletion of glutathione using D,L-Buthionine-S, R-Sulphoximine (BŞO). *Biochem. Pharmacol.*, vol. 34, 4341–4344.

McDANELL, R. E., McLEAN, A. E. M. 1985. Role of nutritional status in drug metabolism and toxicity. In *Nutritional Pathology, Pathobiochemistry of Dietary Imbalances*. 321–356. H. Sidransky (editor). (New York: Marcel Dekker).

McLEAN, A. E. M. 1985. Importance of nutrition in Toxicology. In *Hommage au Professeur Rene Truhaut*. 729–732. G. Le Moan (editor). (Paris: University of Paris).

McLEAN, A. E. M. 1986. The relationship between animal and human responses. In *Long Term Animal Studies, their Predictive Value for Man*. 99–106. S. R. Walker, A. D. Dayan (editors). (Lancaster: MTP).

McLEAN, A. E. M. (with Driver, H. E.) 1986. Dose response relationships for initiation of rat liver tumours by diethylnitrosamine and their promotion by phenobarbitone or ethanol. *Food Chem. Toxicol.*, vol. 24, no. 3, 241.

McLEAN, A. E. M. (with Driver, H. E.) 1986. Dose response relations for initiation of rat liver tumours by dimethyl- and diethylnitrosamines and their promotion by Na-phenobarbitone and ethanol. *Human Toxicol.*, vol. 5, no. 2, 116.

McLEAN, A. E. M. (with Timbrell, J. A., Driver, H. E.) 1986. Acetylhydrazine does not cause liver necrosis but reversible cell swelling. *Ibid.*, 123.

PRICHARD, B. N. C. (with Fry, J., Godfrey, M.) 1986. Prescribing – What, When and Why? (Edinburgh: Churchill Livingstone.) 246 pp.

PRICHARD, B. N. C. 1985. β-adrenoceptor Blocking Agents. In *Handbook of Experimental Pharmacology*, vol. 76. *Clinical Pharmacology of Antianginal Drugs*, 385–458. U. Abshagen (editor). (Berlin: Springer-Verlag).

PRICHARD, B. N. C., BOMPART, F. R. 1986. Hypertensive effect of β-adrenoceptor blockers. In *New Aspects in Hypertension. Adrenoceptors*, 166–191. M. Middeke and H. Holzgreve (editors). (Berlin: Springer-Verlag).

PRICHARD, B. N. C., SMITH, C. C. T., CURTIS, L. D., DELAMOTHE, A. P., BETTERIDGE, D. J. 1985. The distribution of catecholamines between platelets and plasma in normal human subjects. *Clin. Sci.*, vol. 69, 1–6.

PRICHARD, B. N. C. (with Brogden, R. N.) 1985. Xipamide: A review of its pharmacodynamic and pharmacokinetic properties and therapeutic efficacy. *Drugs*, vol. 30, 313–332.

PRICHARD, B. N. C., OWENS, C. W. I. 1986. The management of hypertension. *Br. J. Clin. Pharmacol.*, vol. 21, suppl. 2, 129S–142S.

PRICHARD, B. N. C., TOMLINSON, B. 1986. The additional properties of Beta adrenoceptor blocking drugs. *J. Cardiovas. Pharmacol.*, vol. 8, suppl. 4, S1–S15.

PRICHARD, B. N. C. 1986. Hypertension – current therapeutic practice reviewed. *Drugs*, vol. 31, suppl. 1, 67–70.

PRICHARD, B. N. C., SMITH, C. C. T., WILSON, A. P., BETTERIDGE, D. J. 1986. Stimulus-induced release of endogenous catecholamines from human washed platelets. *Clin. Sci.*, vol. 70, 495–500.

ROSS, E. J. 1985. Cushing's Syndrome; current status. *Cardiol.*, vol. 72, suppl. 1, 64–69.

SHAW, I. C. (with Gibb, W. R. G.) 1985. Myoglobinuria due to heroin abuse, *J. Roy. Soc. Med.*, vol. 78, 862–863.

SHAW, I. C. (with Wright, K. E., Garrod, P.) 1985. Proposed mechanism for enhanced cysteine excretion in urine during mesna therapy. *Human Toxicol.*, vol. 4, no. 5, 546.

SHAW, I. C., WEEKS, M. S. 1985. Interactions between sodium 2-mercaptoethane sulphonate (Mesna) and selected transition metals *in vitro* and *in vivo*. *Ibid.*, 540.

SHAW, I. C., GRAHAM, M. I. 1986. Difference in the biliary excretion of two oxazaphosphorine structural isomers and their metabolites. *Human Toxicol.*, vol. 5, no. 2, 150.

DE SWIET, M. 1985. Problems of prescribing in obstetrics. In *Litigation and Obstetrics and Gynaecology*, 41–57. G. V. P. Chamberlain, C. J. B. Orr, F. Sharp (editors). (London: Royal College of Gynaecologists).

DE SWIET, M. 1986. Pre-existing medical diseases. In *Pregnancy Care – A Manual for Practice*, 69–111. G. Chamberlain and J. Lumley (editors). (Chichester: John Wiley & Son Ltd.).

DE SWIET, M. 1986. Respiration. In *Scientific Foundations of Obstetrics and Gynaecology*. (3rd edition). P. E. Barnes and M. Newton (editors). (London: William Heinemann Medical Books Ltd.).

DE SWIET, M. 1986. Cardio respiratory disease. In *Problems in Obstetric Anaesthesia*, 143–151. B. Morgan (editor). (Chichester: John Wiley & Sons Ltd.).

DE SWIET, M. 1985. Thromboembolism. *Clin. Haematol.*, vol. 14, no. 3, 643–660.

DE SWIET, M. 1985. Maternal autoimmune disease and the fetus. *Arch. Dis. Child.*, vol. 60, 794–797.

DE SWIET, M. 1985. The use of hypertensive drugs in pregnancy. (Editorial) *Brit. Med. J.*, vol. 291, 365–366.

DE SWIET, M. 1985. Prenatal X-ray exposure and childhood cancer in twins. *New Eng. J. Med.*, vol. 312, 1574.

DE SWIET, M. 1986. The epidemiology of hypertension in children. In *Childhood Epidemiology*. D. Alberman and C. Peckham (editors). *Brit. Med. Bull.*, vol. 42, 172–175.

DE SWIET, M. (with Chapman, M. F., Jone, M., Spring, J. E., Chamberlain, G. V. P.) 1986. The use of a birthroom: a randomized controlled trial comparing delivery with that in the labour ward. *Brit. J. Obstet. Gynaecol.*, vol. 93, 182–187.

DE SWIET, M. (with Fayers, P.) 1985. Overview of randomized trials of diuretics in pregnancy (letter). *Brit. Med. J.*, vol. 290, 788.

DE SWIET, M. (with Lao, T. T., Letsky, E., Walters, B. N. J.) 1986. Prophylaxis of thromboembolism in pregnancy: an alternative. *Brit. J. Obstet. Gynaecol.*, vol. 92, 202–206.

DE SWIET, M. (with Talbert, D. G.) 1986. The measurement of cardiac output by electrical impedance plethysmography in pregnancy. Are the assumptions valid? *Brit. J. Obstet. Gynaecol.*, vol. 93, 721–726.

DE SWIET, M. (with Walters, B. N. J., Lao, T., Smith, V.) 1985. Fetoprotein elevation and preteinuric pre-eclampsia. *Brit. J. Obstet. Gynaecol.*, vol. 82, 341–344.

DE SWIET, M. (with Walters, B. N. J., Smith, V., Mustill, T. A.) 1985. Pain relief after epesiotomy – a comparative study of suprofen and dihydrocodeine. *Brit. J. Obstet. Gynaecol.*, vol. 92, 1160–1163.

TACCHI-BEDFORD, A. M., McLEAN, A. E. M. 1986. Effect of nutrition and β-naphthoflavone (BNF) induction of rat liver and colon DNA methylation by 1,2 dimethylhydrazine (DMH). *Proc. Am. Ass. Can. Res.*, vol. 27, 131.

TACCHI-BEDFORD, A. M., WHYMAN, G. D., McLEAN, A. E. M. 1986. Effect of dietary β-naphthoflavone on DNA alkylation in the rat large intestine after 1,2 dimethylhydrazine. *Proc. BACR*, vol. 54, no. 1, 172.

TOMLINSON, B., GRAHAM, B. R., PRICHARD, B. N. C. (with Cronin, C. J.) 1986. Acute haemodynamics of carvedilol compared to propranolol, labetalol and pindolol. *Brit. J. Clin. Pharmacol.*, vol. 21, no. 5, 581–582.

TOMLINSON, B., GRAHAM, B. R., PRICHARD, B. N. C., SMITH, C. C. T., BETTERIDGE, D. J. (with Cronin, C. J.) 1986. Effects of additional properties of beta-adrenoceptor antagonists on plasma noradrenaline response to acute administration. *Eur. J. Clin. Invest.*, vol. 16, no. 2, A60.

WALDEN, R. J., GRAHAM, B. R., PRICHARD, B. N. C., SMITH, C. C. T. (with Cronin, C. J.) 1985. Does Li 32–468 exhibit selective β_2 adrenoceptor blocking actions in hypertensive patients? *Brit. J. Clin. Pharmacol.*, vol. 20, 275–276.

WALDEN, R. J., BOMPART, F. R., GRAHAM, B. R., WHITE, L., PRICHARD, B. N. C. (with Aellig, W.) 1986. ADS 108–350 a novel bradycardiac agent: studies in healthy volunteers. *Brit. J. Clin. Pharmacol.*, vol. 21, 106–107.

WALDEN, R. J., GRAHAM, B. R., PRICHARD, B. N. C. (with Hernandex, J., Bhattacharjee, P.) 1986. Bromocriptine in the treatment of hypertension. *Eur. J. Clin. Pharmacol.*, vol. 30, 141–144.

COMMUNITY MEDICINE

ELSTON, M. A. C. (with Doyal, L.) 1986. Women, health and medicine. In *Women in Britain Today*, 173–208. V. Beechey and E. Whitelegg (editors). (Milton Kenyes: Open University Press).

FULLER, J. H. 1985. Blood pressure and diabetes mellitus. In *Handbook of Hypertension*, vol. 6, *Epidemiology of hypertension*, 318–330. C. J. Bulpitt (editor). (Amsterdam: Elsevier Biochemical Press).

FULLER, J. H. 1985. Causes of death in diabetes mellitus. *Horm. Metab. Res.*, vol. 15 (Suppl.), 3–9.

FULLER, J. H. 1985. Epidemiology of hypertension associated with diabetes mellitus. *Hypertension*, vol. 7 (Suppl. II), II-3–II-7.

FULLER, J. H. (with Edmeades, S. P.) 1985. Changes in mortality from diabetes and ischaemic heart disease in 26 countries, 1968–80. *Diabetic Medicine*, vol. 2, 313A.

FULLER, J. H. (with Edmeades, S. P.) 1985. Diabetes and ischaemic heart disease mortality trends, 1968–1980, compared in 26 countries. *Diab. Res. Clin. Prac.* (Suppl 1), S148.

FULLER, J. H. (with Robinson, N.) 1985. Role of life events and difficulties in the onset of diabetes mellitus. *J. Psychosomatic Res.*, vol. 29, 583–591.

FULLER, J. H. (with Robinson, N., Edmeades, S. P.) 1985. Life events and their relationship to depression in diabetes. *Diab. Res. Clin. Prac.* (Suppl 1), S474.

HEAD, J. A., FULLER, J. H. (with Morrish, N. J. and the WHO multinational Study Group, London Centre) 1985. Risk factors for mortality in middle-aged diabetics. *Diab. Res. Clin. Prac.* (Suppl 1), S394.

MacFARLANE, A. J. 1986. Trends in maternity care. In *Hospital In-patient Enquiry: Maternity tables 1977–81*, Series MB4, No. 19. (London: HMSO). 9–25.

MacFARLANE, A. J. 1985. Statistics and policy making in the maternity services in England and Wales. *Midwifery*, vol. 1, 150–161.

MacFARLANE, A. J. 1986. Problems in using medical statistics. *Aslib Proceedings*, vol. 38, no. 5, 145–161.

MacFARLANE, A. J. (with Mugford, M.) 1986. An epidemic of caesareans? *J. Mat. Child Hlth.*, vol. 11, 38–42.

McCARTHY, M. 1985. Psychiatric care in Italy: evidence and assertion. *Hospital and Health Services Review*, vol. 81, 278–280.

McCARTHY, M. 1986. Cutting the cake: government spending plans for 1986–89. *Brit. Med. J.*, vol. 292, 840–842.

McCARTHY, M. 1986. A fairer deal from RAWP. *Ibid.*, 289–290.

McCARTHY, M. 1986. Community Care. *Lancet*, 1, 392.

McKEIGUE, P. M., MARMOT, M. G. (and others) 1985. Diet and coronary risk factors in Asians in northwest London. *Lancet*, 2, 1086–1090.

MARMOT, M. G. 1985. Psychosocial factors and blood pressure. In *Handbook of Hypertension*, vol. 6, *Epidemiology of Hypertension*, 89–104. C. J. Bulpitt (editor). (Amsterdam: Elsevier Press).

MARMOT, M. G. 1985. Psychosocial factors and blood pressure. *Preventive Medicine*, vol. 14, 451–465.

MARMOT, M. G. 1986. Does stress cause heart attacks? *Postgraduate Medical Journal*, vol. 62, 683–686.

MARMOT, M. G. 1986. Epidemiology and the art of the soluble. *Lancet*, i, 897–900.

MARMOT, M. G. (with Elliott, P.) 1985. International studies of salt and blood pressure. *Annals of clinical Research*, 16 suppl., vol. 43, 670–671.

MARMOT, M. G. (and others) 1985. Fibrinogen: a possible link between social class and coronary heart disease, *Brit. Med. J.*, vol. 291, 1312–1314.

MARMOT, M. G. (and others) 1986. The relationship between both sodium and potassium intake and blood pressure in London civil servants. *J. Chron. Dis.*, vol. 39, 211–219.

PATEL, C., MARMOT, M. G. 1985. Trial of relaxation in reducing coronary risk (letter). *Brit. Med. J.*, vol. 290, 1746–1747.

PATEL, C., MARMOT, M. G. (and others) 1985. Trial of relaxation in reducing coronary risk: four year follow up. *Ibid.*, 1103–1106.

DENTAL SCHOOL

ALEXANDER, A. G. (with Rowe, A. H. R., Johns, R. B.) (Editors.) 1986. *A Companion to Dental Studies*, vol. 3. *Clinical Dentistry*. (London: Blackwell Scientific Publications.) 1487 pp.

COHEN, A. M. (with Linney, A. D.) 1986. A low cost system for computer based cephalometic analysis. *Brit. J. Orthod.*, vol. 13, 105–108.

DONOGHUE, H. D. (with Perrons, C. J., Hudson, D. E.) 1985. The role of H_2O_2 and the lactoperoxidase-SCN-H_2O_2 system on the interaction between two bacteria originating from human dental plaque, *Streptococcus rattus (mutans)* BHT and *Streptococcus mitior* LPA-1, grown on human teeth in an artificial mouth. *Archs. Oral Biol.*, vol. 30, no. 7, 519–523.

DONOGHUE, H. D. (with Perrons, C. J., Hudson, D. E.) 1986. Establishment of a bacterial 'basic' plaque flora on teeth in an artificial mouth. *J. dent. Res.*, vol. 65, no. 4, 521 (abstract 305).

DONOGHUE, H. D. (with Perrons, C. J., Hudson, D. E.) 1986. Growth of streptococci on teeth in an artificial mouth. *J. dent. Res.*, vol. 65 (Special Issue), 800 (abstract 673).

FLETCHER, A. M. 1985. Dental Materials: 1982 Literature Review Part 2. E. C. Combe (editor). *J. Dent.*, vol. 13, no. 3, 192–229.

FLETCHER, A. M. 1985. Ethnic variations in sagittal condylar guidance angles. *J. Dent.*, vol. 13, no. 4, 304–310.

FREEMAN, R. E. 1985. Application of the primary health care. Approach to oral health systems in underdeveloped countries. *Odontostomal. Trop.*, vol. VIII, 147–152.

FREEMAN, R. E. 1985. Dental anxiety: a multifactorial aetiology. *Brit. Dent. J.*, vol. 159, 406–408.

FREEMAN, R. E. 1986. Psychological variables in the treatment of post operative pain and oedema by therapeutic ultrasound. *J. dent. Res.*, vol. 65, 494.

FREEMAN, R. E. 1986. Understanding and predicting toothbrushing behaviour in adolescents. *Ibid.*, 499.

GROVES, B. J. 1986. General principles of diagnosis and treatment planning. In *A Companion to Dental Studies*, vol. 3. *Clinical Dentistry*, 436–452. A. H. R. Rowe, A. G. Alexander and R. B. Johns (editors). (London: Blackwell Scientific Publications).

HUDSON, D. E. (with Donoghue, H. D., Perrons, C. J.) 1986. A laboratory microcosm (artificial mouth) for the culture and continuous pH measurement of oral bacteria on surfaces. *J. appl. Bacteriol.*, vol. 60, 301–310.

JAMES, D. R. (with Brook, K.) 1985. Maxillary hypoplasia in patients with cleft lip and palate deformity – the alternative surgical approach. *Europ. J. Orthod.*, vol. 231–247.

JAMES, D. R. (with Elliot, M., Bull, R., Lansdown, R.) 1986. Children's and adults' reaction to photographs before and after surgery. *Brit. J. Oral and max-fac. Surg.*, vol. 14, 18–21.

LIKEMAN, P. R. (with Picton, D. C. A., Reissis, G.) 1986. An investigation of the displacement of cantilever bridges and their abutments under occlusal load in monkeys *(M. fasicularis)*. *J. dent. Res.*, vol. 65, no. 509, 196.

MOSS, J. P. 1985. The periodontal ligament and orthodontic practice. *Trans. Nederladse Vereniging voor Orthodontische Studie studieweek*, 71–90.

MOSS, J. P. 1985. A cephalometric and electromyographic investigation of patients treated for the correction of mandibular prognathism by mandibular surgery only. *Int. J. Orthod.*, vol. 23 (1–2), 9–10.

PARKINS, B. J. (editor and part translator.) 1986. Periodontal and occlusal factors in crown and bridge procedures by Jan H. N. Pameijer. (Amsterdam: PBC).

PEARSON, G. J. (with Atkinson, A. S.) 1985. The evolution of glass ionomer cements. *Brit. dent. J.*, vol. 159, 335–337.

PEARSON, G. J. (with Picton, D. C. A., Braden, M.) 1985. Reaction of oral soft tissues to three elastomeric prosthetic materials using a mucosal contact method. *Biomats.*, vol. 6, 389–392.

PEARSON, G. J. (with Knibbs, P. and Plant, G.) 1986. The use of a glass ionomer cement to restore Cl.III cavities. *Rest. Dent.*, vol. 3, 42–48.

PEARSON, G. J. (with Atkinson, A. S.) 1986. The effect of change in mixing capsule volume on early compression strength of dental amalgam. *J. dent. Res.*, vol. 65, no. 4, 513.

PEARSON, G. J. (with Karipidis, A.) 1986. The effect of p/l ratio of phosphate cement on the force required to remove a standard crown from 6° tapered core. *J. dent. Res.*, vol. 65, no. 4, 519.

PEARSON, G. J. 1986. The effect of two temporary crown materials on the dental pulp of monkeys. *Int. Endo. J.*, vol. 19, 121–124.

PEARSON, G. J. (with Atkinson, A. S.) 1986. Effects of temperature on the setting characteristic of water based cements. *J. dent. Res.*, vol. 64, 668.

PICTON, D. C. A. 1985. Periodonatal biomechanisms – a review. In *Proc. Europ. Soc. for Biomechanics*, 106–111.

PICTON, D. C. A. 1986. Changes in tooth support with time and function. In *Current Topics in Oral Biology – a symnposium*, 83–96. S. J. W. Lesney and B. Matthews (editors). University of Bristol Press.

PICTON, D. C. A. 1986. Extrusive mobility of teeth in adult monkeys *(M. fasicularis) Archs. oral Biol.*, vol. 369–372.

PICTON, D. C. A. 1986. The effect of isolating monkeys' teeth for 3 hours and of submucosal injections of adrenaline and of water on intrusive and extrusive mobility. *J. dent. Res.*, 65, 509, 194.

PICTON, D. C. A. (with Picton, H. M.) 1986. The effect on axial mobility of anterior teeth of apicectomy in adult monkeys *(M. fasicularis). Ibid.*, 195.

SHEIHAM, A. 1985. Why are British teeth so bad? In *Nutrition in Pregnancy and Early Childhood*, London, June 1985, 15–20.

SHEIHAM, A. 1985. Development of health education in the light of new developments in caries and periodontal diseases. In *New Directions in Dental Health Education, The Scottish Health Education Group, Edinburgh, 1985* (Edinburgh: The Scottish Health Education Group). 19–30.

SHEIHAM, A. 1985. A future role for the Community Dental Service in Great Britain. *Comm. Dent. Health*, vol. 2, 239–242.

SHEIHAM, A. (with Cushing, A. M.) 1985. Assessing periodontal treatment needs and periodontal status in a study of adults in North-West England. *Comm. Dent. Health*, vol. 2, 187–194.

SHEIHAM, A. (with Cushing, A. M., Maizels, J.) 1986. Developing socio-dental indicators in the social impact of dental disease. *Comm. Dent. Health*, vol. 3, 3–17.

SHEIHAM, A. (with Jamel, H. A. H.) 1986. The relationship between sweet preference and dental caries in Iraqi school children. *Tropical Dent. J.*, vol. 9, 27–33.

SHEIHAM, A. (with Maizels, J., Cushing, A., Holmes, J.) 1985. Dental attendance and dental status. *Comm. Dent. Oral Epidemiol.*, vol. 13, 304–309.

SHEIHAM, A. (with Smales, F. C., Cushing, A. M., Cowell, C. R.) 1986. Changes in periodontal health in a cohort of British workers over a 14-year period. *Brit. Dent. J.*, vol. 160, 125–127.

SIMS, W. 1986. Pathology. In *Self-assessment in Basic Sciences for Dentists*. 117–156. R. L. Spiers (editor). (Oxford: Blackwell Scientific Publications).

SIMS, W. 1985. *Streptococcus mutans* and vaccines for dental caries: a personal commentary and critique. *Comm. Dent. Health*, vol. 2, 129–147.

SIMS, W. 21 January 1986. Radio 4, Medicine Now 'The problem of AIDS in Dentistry'.

TINKLER, S. M. B. (with Williams, D. M.) 1986. Acid phosphatase positive mononuclear cells in the endosteum of the mouse femur (abstr.) In *Proc. 152nd Meeting of the Pathological Society of Great Britain and Ireland. London Hospital Medical College, 8–10 Jan.* Abstract no. 96.

TINKLER, S. M. B. (with Williams, D. M.) 1986. Response of acid phosphatase positive mouse mononuclear endosteal cells to α-hydroxyvitamin D. (abstr.) In *Proc. 153rd Meeting of the Pathological Society of Great Britain and Ireland. University College and Trinity College, Dublin, 2–4 July*. Abstract no. 97.

ZAMET, J. S. 1986. General principles of diagnosis and treatment planning. In *A Companion to Dental Studies*, vol. 3. *Clinical Dentistry*, 436–452. A. H. R. Rowe, A. G. Alexander and R. B. Johns (editors). (London: Blackwell Scientific Publications).

ZAMET, J. S. 1985. Periodontal treatment for overdenture patients. In *Precision Attachments in Prosthodontics: Overdentures and Telescopic Prostheses*, vol. 2, 29–44. H. W. Preiskel (editor). (Quintessence Publishing Co.).

BARROWMAN, M. M. (with Fewson, C. A.) 1985. Phenylglyoxylase decarboxylate and phenylpyruvate decarboxylase from *Acinetobacter calcoaceticus*. *Current Microbiology*, vol. 12, 235–240.

BARROWMAN, M. M. (with Harnett, W., Kusel, J. R.) 1985. The use of aldehydes to show a relationship between host and parasite antigens at the surface of adult male *Schistosoma mansoni*. *Parasite Immunology*, vol. 7, 415–428.

BARROWMAN, M. M. (and others) 1986. Immunological comparison of microbial TPP-dependent non-oxidative α-keto acid decarboxylases. *FEMS Microbiology Letters*, vol. 34, 57–60.

BARROWMAN, M. M., COCKCROFT, S., GOMPERTS, B. D. 1986. Two roles for guanine nucleotides in the stimulus-secretion coupling of neutrophils. *Nature*, vol. 319, 504–507.

BARROWMAN, M. M., COCKCROFT, S., GOMPERTS, B. D. 1986. Potentiation and inhibition of secretion from neutrophils by phorbol ester. *FEBS Letters*, vol. 201, 137–142.

COCKCROFT, S., BARROWMAN, M. M. (with Segal, A. W., Heyworth, P. G.) 1985. Stimulated neutrophils from patients with autosomal recessive Chronic Granulomatous Disease fail to phosphorylate a 44kd protein. *Nature*, vol. 316, 547–549.

COCKCROFT, S., GOMPERTS, B. D. 1985. Role of guanine nucleotide binding protein in the activation of polyphosphoinositide phosphodiesterase. *Nature*, vol. 314, 534–536.

FOREMAN, R. C. (with Jones, D. B.) 1985. Cell origin of lymphoma complicating coeliac disease *Lancet*, II, 1067–1068.

GOMPERTS, B. D. 1984. Calcium and cellular activation. In *Biological Membranes*, vol. 5, 289–348. D. Chapman (editor). (London: Academic Press).

GOMPERTS, B. D. 1985. Manipulation of the cytosolic composition of mast cells: a study of early events in stimulus-secretion coupling. In *Developments in Cell Biology. 1. Secretory Processes*, 18–32. R. T. Dean and P. Stahl (editors). (Cambridge: Butterworths).

GOMPERTS, B.D. (with Fernandez, J. M.) 1985. Techniques for membrane permeabilization. *Trends in Biochemical Sciences*, vol. 10, 414–417.

GOMPERTS, B. D. (with Fewtrell, C.) 1985. The mast cell, a paradigm for receptor and exocytotic mechanisms. In *Molecular Aspects of Cellular Regulation. Molecular Mechanisms of Transmembrane Signalling*, vol. 4, 377–409. P. Cohen and M. D. Houslay (editors). (Amsterdam: Elsevier).

GOMPERTS, B. D., BARROWMAN, M. M., COCKCROFT, S. 1986. Dual role for guanine nucleotides in stimulus secretion coupling: an investigation of mast cells and neutrophils. *Federation Proceedings*, vol. 45, 2156–2161.

JUDAH, J. D. (and others) 1985. Biosynthesis and secretion of N-acetyl-β-D-hexosimindase by human placental tissues *in vitro*. *Placenta*, vol. 6, 239–248.

RAVAL, P. J., ALLAN, D. 1985. The effects of phorbol ester, diacylglycerol, phospholipase C and Ca^{2+}-ionophore on protein phosphorylation in human and sheep red cells. *Biochemical Journal*, vol. 232, 43–47.

RAVAL, P. J., ALLAN, D. 1985. Ca^{2+}-induced polyphosphoinositide breakdown due to phosphomonoesterase activity in chicken erythrocytes. *Biochemical Journal*, vol. 231, 179–183.

RAVAL, P. J., ALLAN, D. 1986. Changes in membrane polypeptides, polyphosphoinositides and phosphatidate in dense fractions of sickle cells. *Biochimica et Biophysica Acta*, vol. 858, 595–601.

GERIATRIC MEDICINE

BARNES, K. ELIZABETH, MALONE-LEE, J., 1985. Tegaderm pouch dressings. *Nursing Times*, no. 81: 48, 45–46.

BARNES, K. ELIZABETH, MALONE-LEE, J., 1986. Long term catheter management: minimising the problem of premature replacement due to balloon deflation. *J. of Adv. Nursing*, vol. II, no. 3, 303–307.

COLLINS, K. J. (with Bittles, A. H.) (Editors.) 1986. The biology of human ageing. (Cambridge: Cambridge University Press). 280 pp.

COLLINS, K. J., EXTON-SMITH, A. N. 1986. Effects of ageing on human homeostasis. *Ibid.*, 261–275.

COLLINS, K. J. 1986. Man in hot and cold environments. In *A Companion to Medical Studies*. 3rd edit., 39.1–39.7. J. M. Forrester (editor). (Edinburgh: Blackwell Scientific Publications).

COLLINS, K. J. 1986. Low indoor temperatures and morbidity in the elderly. *Age and Ageing*, vol. 15, 193–201.

COLLINS, K. J. 28 Feb 1986. Radio 4, Today.

CROKER, J. R. 1985. Biliary Tract Disease in the Elderly: 'Gastrointestinal Disorders in the Elderly'. *Clinics in Gastroenterology*, vol. 14, no. 14, 773–809.

CROKER, J. R. 1985. Examination of the elderly patient. *Br. J. of Hospital Med., MRCP Suppl.* No. 6.

CROKER, J. R. (with Vallon, A. G.) 1985. Gastroenterology: endoscopic management of obstructive jaundice in the gastric patient. *Geriatric Medicine Today*.

EXTON-SMITH, A. N., MALONE-LEE, J. 1985. Autonomic disorders. In *Neurological Problems in the Elderly*, 199–219. M. Hildick Smith (editor). (London: Bailliere Tindall).

HARRINGTON, M. G. (with Kenny, R. A.) (Editors.) 1985. *Self Assessment in Geriatric Medicine*. (Oxford: Blackwell Scientific Publications).

HARRINGTON, M. G., CROKER, J. C. 1986. Controversies in Geriatric Medicine. *Br. J. of Hospital Med., MRCP Suppl.* No. 7.

HODKINSON, MALCOLM 1986. Cardiomyopathy in the elderly patient. In *Geriatric Heart Disease*, 279–294. Eugene L. Coodley (editor). (Massachusetts: PSG Publishing Company).

HODKINSON, H. M. 1985. Non-specific presentation of illness in the elderly. In *Medicine in Old Age*, (2nd edn.) 61–65. (London: British Medical Association).

HODKINSON, H. M. 1985. Rehabilitation of the elderly. *Ibid.*, 55–59.

HODKINSON, MALCOLM 1986. Test results: what is 'normal' in the elderly? *Geriatric Medicine*, March, 23–26.

HODKINSON, H. M. 1986. Routine minerals and vitamins: are they good for the elderly? *Medical Dialogue*, vol. 69, 2–4.

HODKINSON, H. M. (with Irvine, R. E.) 1985. The endocrine system – thyroid disease in the elderly. In *Textbook of Geriatric Medicine and Gerontology*, 686–714. J. C. Brocklehurst (editor). (Edinburgh: Churchill Livingstone).

HODKINSON, H. M. (with Rudd, A. G., Nicholas, D.) 1985. 1986. Autonomic neuropathy and hypertrophic osteoarthropathy in association with malignancy. *Br., J. Dis. Chest*, vol. 79, 396–399.

McELLIGOTT, G. M., HARRINGTON, M. G. 1986. Breast enlargement simulating cancer as the presenting feature in cardiac failure. *Brit. Med. J.*, vol. 292, 446.

MALONE-LEE, J. G., EXTON-SMITH, A. N. 1985. Disturbances of the bladder and bowel. In *Neurological problems in the Elderly*, 183–198. M. Hildick-Smith (editor). (London: Bailliere Tindall).

MALONE-LEE, J. G. (with Murphy, P., Van der Kammen, T.) 1986. Captopril in Heart Failure of the very old. *Brit. Med. J.*, vol. 293, 86.

RAI, G. S. (with Bielawska, C.) 1986. Reducing mortality after non-acute admission. *Geriatric Medicine*, vol. 16, 1.

RAI, G. S. (with Murphy, P. 1986. Giant Cell arteritis: don't miss these atypical presentations. *Ibid.*, 7–8.

RAI, G. S. (with Murphy, P., Cochrane, M. S.) 1985. Hydatid disease presenting with a bronchobiliary fistula. *J. Am. Geriat. Soc.*, vol. 30, 567–568.

RAI, G. S. (with Wadiwala, I., Sieasland, D.) 1985. Copper and zinc levels in healthy and sick elderly. *J. Am. Geriat. Soc.*, vol. 33, 377.

RAI, G. S., WRIGHT, G. (with Bielawska, C., Murphy, P.) 1986. Hazards for elderly admitted for respite and social care. *Brit. Med. J.*, vol. 292, 240.

WRIGHT, G., RAI, G. S. (with Murphy, P.) 1986. Uterine prolapse. Twelve cases show the need for action. *Geriatric Medicine*, vol. 16, 49–52.

HISTOPATHOLOGY

BOBROW, L. G. (and others) 1985. Immunostaining of bronchial carcinomas using a panel of monoclonal antibodies. *Thorax*, vol. 40, no. 9, 698.

BOBROW, L. G. (and others) 1985. Observer variability in reporting of breast lesions. *J. Clin. Path.*, vol. 30, 1358–1365.

BOBROW, L. G. (and others) 1986. Expression of epidermal growth factor receptors on human cervical, ovarian and vulval carcinomas. *Cancer Res.*, vol. 46, 285–292.

BOBROW, L. G., LAW, S. (with Makin, C. A., Bodmer, W. F.) 1986. Expression of low molecular weight cytokeratin proteins in cervical neoplasia. *J. Path.*, vol. 148, no. 2, 135–140.

GOULD, S. J. (with L. Michaels, Wells Meher) 1985. The microslicing method of temporal bone and the changes in the perinatal period: an interim report. *Acta Otolaryngol. Suppl.*, vol. 423, 9–14.

GOULD, S. J. (with Graham, J.) 1985. Editorial. Subglottic stenosis. *Clin. Otolaryngol.*, vol. 10, 299–302.

GOULD, S. J. (with Quiney, R.) 1985. Subglottic stenosis: a clinico-pathological study. *Ibid.*, 315–327.

GREEN, L. J., RUMSBY, P. C., ROSCOE, J. P. 1986. Increased levels of plasminogen activator mRNA during progressive transformation of ethylnitrosourea-induced rat brain cells. *Br. J. Cancer*, vol. 53, 438.

GREEN, L. J., RUMSBY, P. C., ROSCOE, J. P. 1986. An increase in plasminogen activator mRNA occurs at an early stage in ethylnitrosourea-induced transformation of rat brain cells. *Carcinogenesis*, vol. 7, 477.

HICKS, R. M. (with Knowles, M. A., Jani, H.) 1986. Induction of morphological changes in the urothelium of cultured adult rat bladder by sodium saccharin and sodium cyclamate. *Carcinogenesis*, vol. 7, 767–774.

HICKS, R. M. (with Knowles, M. A., Jani, H. Berry, R. J.) 1985. N-Methyl-N-nitrosourea induces dysplasia and cell surface markers of neoplasia in long-term rat bladder organ cultures. *Carcinogenesis*, vol. 6, 1047–1054.

HICKS, R. M. (with Knowles, M. A., Summerhayes, I. C.) 1986. Carcinogenesis studies using cultured rat and mouse bladder. In *In vitro models for Cancer Research*. M. E. Webber (editor) (Florida, USA: Press Inc.).

HICKS, R. M. (and others) 1985. Transforming growth factors induce markers of neoplasia in cultured adult rat bladder. *Carcinogenesis*, vol. 6, 595–604.

HICKS, R. M. TURTON, J. A., CHOWANIEC, J., PEDRICK, M. (and others) 1985. Modulation of carcinogenesis in the urinary bladder by retinoids. In *Ciba Foundation Symposium No. 113. Retinoids, differentiation and disease, London, 25–27 September 1984*. 168–190.

ISAACSON, P. G. 1985. Malignant lymphoma of the gastrointestinal tract. In *Clinical Immunology of the Liver and Gastrointestinal Tract*, 80–99. D. R. Triger (editor). (Potters Bar: John Wright & Sons).

ISAACSON, P. G. 1985. The association between coeliac disease and malignant lymphoma. In *Immunopathology of the Small Intestine*, 401–413. M. N. Marsh (editor). (Chichester: John Wiley and Sons).

ISAACSON, P. G. 1985. Middle Eastern intestinal lymphoma. *Seminars in Diagnostic Pathol.*, vol. 2, 210–223.

ISAACSON, P. G. 1985. Histiocytic malignancy. *Histopathology*, vol. 9, 1007–1011.

ISAACSON, P. G. (with Addis, B. J.) 1986. Large cell lymphoma of the mediastinum: a B cell tumour of probable thymic origin. *Histopathology*, vol. 10, 379–390.

ISAACSON, P. G. (with Bradford, R., Crockard, H. A.) 1985. Primary rhabdomyosarcoma of the central nervous system: case report. *Neurosurgery*, vol. 17, 101–104.

ISAACSON, P. G. (with Gordyal, P.) 1985. Immunocytochemical characterization of monocyte colonies of human bone marrow: a clue to the origin of Langerhans cells and interdigitating reticulum cells. *J. Pathol.*, vol. 146, 189–195.

ISAACSON, P. G. (with Salisbury, J. R.) 1985. Demonstration of cytokeratins and an epithelial membrane antigen in chordomas and human fetal notochord. *Am. J. Surg. Path.*, vol. 9, no. 11, 791–797.

ISAACSON, P. G. (with Salisbury, J. R.) 1985. Synovial sarcoma. *J. Pathol.*, vol. 147, 49–57.

ISAACSON, P. G. (with Wright, D. H.) 1986. Immunohistochemistry of lymphoreticular tumours. In *Immunocytochemistry, modern methods and applications*, 2nd edit., 568–598. J. M. Polak and S. Van Noorden (editors). (Bristol: Wright & Sons Ltd.).

ISAACSON, P. G., SPENCER, J., FINN, T. 1986. Primary B cell gastric lymphoma. *Human Pathology*, vol. 17, 72–82.

ISAACSON, P. G., SPENCER, J. (and others) 1985. Malignant histocytosis of the intestine – a T cell lymphoma. *Lancet* ii, 688–691.

JOY, K. M., HICKS, R. M. (with Eldridge, J. J.) 1985. The carcinogenicity of benzidine and its analogue 4,4'-diaminoterphenyl in the F344 rat. In *Comparative Genetic Toxicology; the Second UKEMS Collaborative Study*, 563–584. J. M. Parry and C. F. Arlett (editors). (London: Macmillan).

KATZ, DAVID R. 1985. Inducer accessory cells as regulators of the immune response. In *Immune Regulations*, Marc Feldmann and N. A. Mitchison (editors). (New Jersey: Humana Press).

KATZ, D. R. (with Feldmann, M., Tees, R., Schreier, M. H.) 1986. Heterogeneity of accessory cells interacting with T-helper clones. *Immunology*, vol. 58, 167–172.

KATZ, DAVID R. (with Sunshine, Geoffrey H.) 1986. Comparative accessory cell function of Langhans cells isolated from mouse skin. *Brit J. Exp. Pathol.*, vol. 67, 157–166.

LUCAS, S. B. 1985. Diseases caused by parasitic Protozoa and Metazoa. In *Muir's Textbook of Pathology*, (12th edit.), Ch. 28, 1–48. J. R. Anderson (editor). (London: Edward Arnold).

LUCAS, S. B. (with Cruse, J. P., Lewis, A. M. M.) 1985. Anisakiasis in the UK (letter). *Lancet* ii, 843–844.

LUCAS, S. B. 1986. Eosinophilic Gastroenteritis (letter) . *J. Clin. Pathol.*, vol. 39, 696.

LUCAS, S. B. (with Doenhoff, M J., Hassounah, O. A.) 1985. Does the immunopathology induced by schistosome eggs potentiate parasite survival. *Immunology Today*, vol. 6, 203–206.

LUCAS, S. B. (with James, E. R., Dobinson, A. R.) 1985. Pathology associated with vaccination against Schistosoma mansoni in mice using cryoperserved radiation-attenuated schistosomula. *J. of Helminthology*, vol. 59, 57–60.

LUCAS, S. B. (and others) 1985. Protection of sheep against Schistosoma bovis using cryopreserved radiation-attentuated schistosomula. *Ibid.*, 51–55.

MOORE, B. P., HICKS, R. M. (with Knowles, M. A.) 1986. Carcinogenesis studies using cultured human bladder. In *In vitro Models for Cancer Research*, 21–61. M. E. Webber (editor). (Florida, USA: CRC Press Inc.).

NORONHA-DUTRA, A. A. (with Epperlein, M. M., Strange, R. N.) 1986. Involvement of the hydroxyl radical in the abiotic elicitation of phytoalexins in legumes. *Physiological and Molecular Plant Pathology*, vol. 28, 67–77.

NORONHA-DUTRA, A. A., WOOLF, N. (with Steen, E. M.) 1985. The correlation between catecholamine and lipid peroxidation induced damage in heart cells. *Basic Res. Cardiol.*, vol. 80, suppl. 11, 133–136.

NORTON, A. J., ISAACSON, P. G. 1985. Granulocyte and HLA-D region specific monoclonal antibodies in the diagnosis of Hodgkin's disease. *J. Clin. Pathol.*, vol. 38, 1241–1246.

NORTON, A. J., RAMSAY, A. D., ISAACSON, P. G. (with Smith, S. H., Beverley, P. C. L.) 1986. Monoclonal antibody (UCHL1) that recognised normal and neoplastic T cells in routinely fixed tissues. *J. Clin. Pathol.*, vol. 39, 399–405.

PAPADAKI, L. (and others) 1985. Vaginal oestriol: effective menopausal therapy not associated with endometrial hyperplasia. *J. Gynaec. Endocr.*, vol. 1, 1–11.

PITTILO, R. M., WOOLF, N. (with Nicholson, L. J., Clarke, J. M. F., Blow, C. M.) 1985. Cigarette smoke-induced injury of peritoneal mesothelial cells. *Brit. J. Expnt. Pathol.*, vol. 66, 365–370.

PITILLO, R. M., WOOLF, N. (and others) 1985. The effects of nicotine on PGI_2 production by rat aortic endothelium. *Thrombosis and Haemostasis*, vol. 5492, 472–474.

RIDLEY, D. S. 1985. *Skin biopsy in leprosy*. (2nd edit.) (Basle: Documenta Geigy).

RIDLEY, D. S. 1986. The Pathology of Leprosy. In *Leprosy*. R. C. Hastings (editor). (Edinburgh: Churchill Livingstone).

RIDLEY, D. S. 1986. The classification of Hansen's disease. *The Star (Carville)*, vol. 45, 8–10.

RIDLEY, D. S. (with Ridley, M. J.) 1986. Monocyte recruitment, antigen degredation and localisation in cutaneous leishmaniasis. *Brit. J. Exp. Path.*, vol. 67, 209–218.

RODE, J. (with Miller, J. A., Dowd, P. M.) 1985. Lepromatous leprosy. *J. Roy. Soc. Med.*, vol. 78, Suppl. 11, 46–47.

RODE, J. (with Williams, R. A., Jarvis, L. R., Skinner, J. M.) 1985. The measurement of S-100 protein and neurone specific enoplase (NSE) in melanocytic tumours by video image analysis. *Symp. Aust. Soc. Med. Res.*

RODE, J., DHILLON, A. P., PAPADAKI, L., MOSS, E. (with Stockbrugger R., Cotton, P. B.) 1986. Pernicious anaemia and mucosal endocrine proliferations of the non-antral stomach. *Gut*, vol. 27, 789–793.

ROSCOE, J. P. (with Owsianka, A. M., Zammit-Pace, R.) 1986. Modulation of transforming growth factor production in chemically transformed rat glioma cells by passaging and Mitomycin C. *Br. J. Cancer*, vol. 53, 441.

SPENCER, J., FINN, T., ISAACSON, P. G. 1986. Expression of HLA-DR antigens on epithelium associated with lymphoid tissue in the human gastro-intestinal tract. *Gut*, vol. 27, 153–157.

SPENCER, J., FINN, T., ISAACSON, P. G. 1986. Human Peyer's patches; an immunocytochemical study. *Ibid.*, 405–410.

SPENCER, J., FINN, T., ISAACSON, P. G. (with MacDonald, T. T.) 1986. The development of gut-associated lymphoid tissue in the terminal ileum of fetal human intestine. *Clin. exp. Immunol.*, vol. 64, 536–543.

SPENCER, J., FINN, T., ISAACSON, P. G. (with Pulford, K. A. F., Mason,, D. Y.) 1985. The human gut contains a novel population of B lymphocytes which resemble marginal zone cells. *Clin. exp. Immunol.*, vol. 62, 607–612.

TURTON, J. A., HICKS, R. M. (with Gwynne, J., Hunt, R., Hawkey, C. M.) 1985. Retinoid Toxicity. In *Ciba Foundation Symposium No. 113, Retinoids, Differentiation and Disease*, 220–251.

MEDICAL PHYSICS

ARRIDGE, S. R., COPE, M., VAN DER ZEE, P., HILLSON, P. J., DELPY, D. T. 1986. Visualisation of the oxygenation state of brain and muscle in newborn infants by near infra-red transillumination. In *Information Processing in Medical Imaging*, S. L. Bacharach (editor). June 1985. (New York: Martinus Nijhoff). 155–176.

BLACKWELL, R. J. 1985. Ultrasound apparatus and general scanning technique. In *Clinical Diagnostic Ultrasound*, 3–24. E. Barnett and P. Morley (editors). (Oxford: Blackwell Scientific Publications).

BLACKWELL, R. J. 1986. Ultrasound, lasers and fibre optics. In *Scientific Foundations of Obstetrics and Gynaecology* (3rd edit.), 538–550. E. E. Philipp, J. Barnes, M. Newton (editors). (London: William Heinemann Medical Books Ltd.).

BLACKWELL, R. J. 1986. Ultrasound output variables and safety considerations. *B.M.U.S. Bulletin*, vol. 40, 15–19.

CADY, E. B., DELPY, D. T. (and others) 1985. Cerebral energy metabolism and intracellular pH during ischeamia and hypoxia in the newborn lamb. In *Proc. IVth Ann. Meeting Soc. Magnetic Resonance in Medicine, London, 19–23 August 1985*. 277–278.

CADY, E. B., DELPY, D. T. (and others) 1985. Relation between PCr/Pi ratio in the brain of newborn infants, survival and early neurodevelopmental outcome. *Ibid.*, 724–725.

CADY, E. B., DELPY, D. T. (and others) 1986. Improved energy metabolism in the brain of newborn infants with increased cerebral echodensities. *Lancet*, 1, 1242–1246.

CADY, E. B., DELPY, D. T. (and others) 1985. Deranged energy metabolism in the brain of newborn infants with increased cerebral echodensities. *Ped. Res.*, vol. 19, 1078.

CADY, E. B., DELPY, D. T., TOFTS, P. S. (and others) 1986. Cerebral metabolism in new born infants studied by 31-P NMR spectroscopy. In *Fetal and Neonatal Physiological measurements*. P. Rolfe (editor). (London: Butterworths).

CADY, E. B., DELPY, D. T., TOFTS, P. S. 1985. Clinical 31-P NMR spectroscopy. In *Physical Principles and Clinical Applications of Nuclear Magnetic Resonance*. R. A. Lerski (editor). (Institute of Physical Sciences in Medicine).

LINNEY, A. D. (with Cohen, A. M.) 1986. A low cost system for computer-based cephalometric analysis. *Brit. J. of Orthodontics*, vol. 13, 105–108.

MILLS, T. N. (with Coleridge Smith, P. D., Bown, S. G. and Tralau, C. J.) 1986. Comparison of a metallo-phthalocyanine with haematoporphyrin derivative as sensitising agents for laser photodynamic therapy of tumours. *Proc. Brit. Med. Laser Assoc.* (Pilkington Medical Systems).

MILLS, T. N. (with Cross, F. W., Adiseshia, M. and Bown, S. G.) 1986. *In vitro* study of microsecond ND: YAG laser pulses on normal and atheromatous human aorta. *Ibid.*

MILLS, T. N. (with Northfield, T. C. and Swain, P.) 1985. Experimental studies of new mechanical methods of endoscopic haemostasis: stitching, banding, clamping and ulcer removal. *Gut*, vol. 26, 10, A1151.

MILLS, T. N. (with Swain, P., Brown, G., Roe, S. M. and Lewin, M. R.). 1986. Endoscopic stapling in the oesophagus and stomach. *Gut*, Spring 1986. BSG.

MILLS, T. N. (with Swain, P.) An endoscopic sewing machine. *Gastrointestinal Endoscopy*, vol. 32, no. 1, 36–38.

MILLS, T. N. (and others) 1986. Laser assisted microvascular anastomosis (tissue welding). *Proc. Brit. Med. Laser Assoc.* (Pilkington Medical Systems).

MILLS, T. N. (and others) 1986. Nature of the bleeding vessel in recurrent bleeding gastric ulcers. *Gastroenterology*, vol. 90, 595–608.

THALAYASINGAM, S., DELPY, D. T. (with Chu, A.) 1985. An infant incubator for use during NMR spectroscopy and imaging. *Proc. IVth Ann. Meeting Soc. Magnetic Resonance in Medicine, London, 19–23 August 1985*. 927–928.

TODD-POKROPEK, A. 1985. Image analysis: transfer functions. In *Physics in Medicine and Biology Encyclopaedia*, vol. 1, 409–412. T. F. McAinsh (editor). (Oxford: Pergamon Press).

TODD-POKROPEK, A. 1986. Single photon and positron emission computerised tomography in tumour diagnosis. In *Nuclear Medicine in Clinical Oncology*, 31–33. C. R. Winkler (editor). (Berlin: Springer Verlag).

TODD-POPROPEK, A. 1983. Round table discussion – the future of computers in nuclear medicine. In *Radioisotopes in Clinical Medicine and Research*, vol. 17, Band 2, 829–836. R. Hofer and H. Bergmann (editors). (Vienna: Verlag H. Egermann).

TODD-POKROPEK, A. 1985. Performance testing SPECT systems, recent developments. *J. Nucl. Med.*, vol. 26, 100.

TODD-POKROPEK, A. 1986. Parallel structures in nuclear medicine computing. *Sophia Newsletter*, vol. 2, 15–19.

TODD-POKROPEK, A. (with Chan, C. and Appledorn, R.) 1986. Image data compression techniques applicable to image networks, 522–536. In *Information Processing in Medical Imaging*. S. Bacherach (editor). (The Hague: Martinus Nijhoff).

TODD-POKROPEK, A. (with Elliott, A. and Houston, A.) 1986. The mathematics of imaging. in *Mathematical Methods in Medicine*, vol. 2, Chapter 5, 85–174. D. Ingram, M. Block (editors). (Chichester: Wiley).

TODD-POKROPEK, A. (with Hunter, G. J., Sweeney, L., Gordon, I.) 1985. DTPA scanning with diuretic wash-out: is it of use in the investigation of obstruction in the presence of gross renal tract dilitation. *European Nuclear Medicine Conference, 1985*, Abstract 64.

TODD-POKROPEK, A. (with Vivian, G., Barratt, T. M., Gordon, I.) 1985. Physiological variation of normal transit time in children. *Eur. J. Nucl. Med.*, vol. 11, 179–181.

TODD-POKROPEK, A. (and others) 1985. Physics and data processing: scatter correction, vol. 17, Band 2, 791–801. In *Radioisotopes in Clinical Medicine and Research*. R. Hofer and H. Bergmann (editors). (Vienna: Verlag H. Egermann).

TODD-POKROPEK, A. (and others) 1985. Contrast improvement and scatter correction in SPECT. Abstract. *Nucl. Med. Communication*, vol. 6, 559.

TODD-POKROPEK, A. (and others) 1985. Collimator performance evaluation by Monte-Carlo techniques. *J. Nucl. Med.*, vol. 26, 44.

TODD-POKROPEK, A. (and others) 1985. Detection of cross-reactive anti-DNA antibody in the serum of systematic lupus erythematosus patients and of their relatives. *Arthritis and Rheumatism*, vol. 28, 999–1007.

TODD-POKROPEK, A. (and others) 1986. Haematological reassessment of rheumatoid arthritis using an automated method. *Br. J. Rheumatology*, vol. 25, 152–157.

TODD-POKROPEK, A. (and others) 1986. Evaluation of scatter correction methods in SPECT. *J. Nucl. Med.*, vol. 27, 884.

TOFTS, P. S. 1986. Tissue localisation in cerebral surface coil nuclear magnetic resonance (NMR) spectroscopy. In *Fetal and Neonatal Physiological Measurements*. P. Rolfe (editor). (London: Butterworths).

TOFTS, P. S. 1986. Measurement of absolute metabolite concentration in-vivo using surface coild NMR spectroscopy. In *Institute of Physical Sciences in Medicine Annual Conference, Coventry, 1986.*

TOFTS, P. S. 1986. The measurement of absolute 31-P concentration in-vivo using surface coil NMR spectroscopy – corrections for coil loading. In *Society of Magnetic Resonance in Medicine 5th Annual Meeting, Montreal, 1986*, 987.

TOFTS, P. S. 1986. Direct in-vivo measurement of absolute metabolite concentrations using 31-P nuclear magnetic resonance. *Biochem. Biophys. Acta*, vol. 886, 399–405.

TOFTS, P. S. 1985. A simple direct method for measuring concentrations of phosphorus containing metabolites in-vivo using nuclear magnetic resonance (NMR). *J. Physiol.*, vol. 65, 12P.

TOFTS, P. S. (with Johnson, G.) 1986. Comparison of three methods of estimating slice profile in NMR imaging. In *Society of Magnetic Resonance in Medicine 5th Annual Meeting, Montreal, 1986*, 1571.

TOFTS, P. S. (with Johnson, G.) 1986. Correction for Rayleigh noise in an NMR magnitude image when measuring T2 at low values of signal to noise ratio. *Ibid.*, 1450.

TOFTS, P. S. (with Wray, S.) 1985. Changes in brain phosphorus metabolites during the post natal development of the rat. *J. of Physiol.*, vol. 359, 417–429.

TOFTS, P. S. (with Wray, S.) 1985. Values of phosphorus metabolite concentration in in-vivo brain and muscle, measured directly using surface coils. In *Society of Magnetic Resonance in Medicine 4th Annual Meeting, London 1985.*

MEDICINE

ABDULWAHID, N. A., JACOBS, H. S. (with Morris, D.) 1986. New approaches in the treatment of hypothalamic infertility in the male. In *Pulsatile GnRH 1985 Proc. 3rd Ferring Symposium.* H. J. T. Coelingh-Bennink, A. A. Dogteron, R. E. Lappohn, R. Rolland, J. Schoemaker and B. V. Ferring (editors). (Haarlem, The Netherlands). 257–262.

ABDULWAHID, N. A., JACOBS, H. S. (with Adams, J., Van der Spuy, Z. M.) 1985. Gonadotrophin control of follicular development. *Clinical Endocrinology*, vol. 23, 613–626.

ABDULWAHID, N. A., ARMAR, N. A., JACOBS, H. S. (with Morris, D. V., Adams, J.) 1985. Diagnostic tests with LHRH should be abandoned. *Brit. Med. J.*, vol. 291, 1471–1472.

ABDULWAHID, N. A., JACOBS, H. S. (with others) 1985. Multifollicular ovaries: clinical and endocrine features and response to pulsatile gonadotrophin releasing hormone. *Lancet*, II, 1375–1378.

ARMAR, N. A., JACOBS, H. S. (with Adams, J.) 1986. Induction of ovulation with gonadotrophin releasing hormone. In *Recent Advances in Obstetrics and Gynaecology*, vol. 15, 259–277. J. Bonnar (editor). (Edinburgh: Churchill Livingstone).

ARMAR, N. A., ABDULWAHID, N., JACOBS, H. S. (with Tan, S. L., Adams, J. A., Honour, J. W.) 1986. The use of superactive LHRH analogue with FSH – a new method for induction of ovulation in patients with polycystic ovarian syndrome. *Singapore Journal of Obstetrics and Gynaecology*, vol. 17, no. 2, 93–98.

BETTERIDGE, D. J. 1986. Lipoprotein Metabolism. In *Recent Advances in Diabetes*, 2, 91–107. M. Nattrass (editor). (Edinburgh: Churchill Livingstone).

BETTERIDGE, D. J. 1986. Platelets and diabetes mellitus. In *Diabetes and the Heart*, 81–119. K. G. Taylor (editor). (Tunbridge Wells: Castle Home).

BRENTON, D. P., BREWSTER, F. GARDINER, R. M., GARROD, P., HASELER, M. E. (with Craig, Geraldine) 1986. Transport of L-phenylalanine and related amino acids at the blood brain barrier in the lamb studied by the single pass multiple tracer dilution technique. *J. Physiol.*, vol. 377, 102p.

BRENTON, D. P. (and others) 1986. Inhibition of L-(18^F) Fluoradopa uptake into human brain by amino acids demonstrated by positron emission tomography. *Annals of Neurology*, vol. 20, 258.

BROOK, C. G. D. 1985. *All about Adolescence.* (Chichester: John Wiley) 152 pp.

BROOK, C. G. D. (with Hindmarsh, P. H.) 1985. Single dose dexamethasone test in children. *Clinical Endocrinology*, vol. 23, 67–70.

BROOK, C. G. D. (with others) 1985. Comparison between a physiological and a pharmacological stimulus of GH secretion: response to stage V sleep and insulin induced hypoglycaemia. *Lancet*, II, 1033–1035.

BROOK, C. G. D. (with others) 1985. Spontaneous gonadotrophin pulsatility and ovarian morphology in girls. *Clinical Endocrinology,* vol. 23, 547–553.
BROOK, C. G. D. (with Noone, C.) 1985. Traumatic hypopituitarism; growth hormone treatment and induction of puberty. *Hospital Update,* vol. 11, 667–677.
BROOK, C. G. D. (with Stanhope, R.) 1985. Neonatal hypoglycaemia: an important sign of endocrine disorders. *Brit. Med. J.,* vol. 291, 728–729.
BROOK, C. G. D. (with Stanhope, R., Adams, J.) 1985. Disturbances of puberty. *Clinics in Obstetrics and Gynaecology,* vol. 12, 557–577.
BROOK, C. G. D. (with Stanhope, R.) 1986. Clinical diagnosis of disorders of puberty. *British J. Hospital Medicine,* 57–58.
BROOK, C. G. D. (with others) 1986. Steroid 5^2 reductase deficiency and posterior urethral values. *Hormone Research,* vol. 23, 213–214.
BROOK, C. G. D. 1986. Turner Syndrome. *Archives of Disease in Childhood,* vol. 61, 305–309.
CAMBRIDGE, G. 1986. Licensed to kill. *Brit. Med. J.,* vol. 293, 904–905.
CHAMBERS, D. R. 1986. The role of the Coroner. In *Monitoring for Drug Safety* (2nd edition). 391–398. W. H. W. Inman (editor). (Lancaster: MTP Press).
CHAMBERS, D. R. 1985. St. Pancras Coroners Court: problems in the design and building of the court. *Camden History Review,* vol. 13, 22–25.
CHAMBERS, D. R. 1986. Coroners and the family practitioner. *The Physician,* vol. 6, no. 2, 632–635.
COHEN, J. 1986. Drug misuse in General Practice. In *Medical Annual.,* 129–145. D. J. Periera Gray (editor). (Bristol: Periera Gray).
COHEN, J. 1986. 2 Modified essay questions and answers. In *MEQs for the MRCGP.,* 41–45; 150–166. S. Murray (editor). (Oxford, London, Edinburgh: Blackwell).
COHEN, J. 1985. Materia Non Medica – A long distance walk in the winter. *Brit. Med. J.,* vol. 291, 264–265.
COHEN, J. 1985. Obesity: A Review. *J. Royal College GPs,* vol. 35, 435–441.
COHEN, J. 1985. Why are doctors so powerful? *The Practitioner,* vol. 229, 754–761.
COHEN, J. 1986. Doctors and dominance. *Family Practice,* vol. 24, 197–198.
COHEN, J. 1986. Cocaine: An old problem or a new one returned? *The Physician,* vol. 56, 861–862.
COHEN, J. 1986. Prevention or cure for child abuse. *The Practitioner,* vol. 230, 607–609.
COHEN, J. 1986. General practitioners and child abuse. *Brit. Med. J.,* vol. 292, 869.
COHEN, J. 1985. Partners in Caring: film on Doctors and Patients for Association of British Pharmaceutical Industry (ABPI).
COHEN, J. 1985. British Medical Television, programme on drug abuse and the General Practitioner.
COHEN, J. 1986. BBC Radio, The Good Book programme on aspects of circumcision.
COHEN, J. 1986. Rousell Medical Television, Drug Dependency and the General Practitioner: I Recognition and diagnosis. II Management, support and rehabilitation. III Solvents, glues and other inhalants. IV Stimulants and cocaine.
COHEN, J. 1986. Hamblyn Film and Video Production. Dementia; its causes, diagnosis and management.
COHEN, J. 1986. British Medical Television, Consulting styles and roles, series of 10 programmes on communications.

COHEN, S. L., BETTERIDGE, D. J., McNEIL, N. I. (with Gibb, W. R., Gordon, T., Harding, J.) 1985. Low protein/high fibre diet in the nephrotic syndrome – improves hyperlipidaemia. In *Proc. 4th International Cong. on Nutrition and Metabolism in Renal Disease, Williamsburg, Virginia, October 1985,* 31P.

COHEN, S. L., BETTERIDGE, D. J., McNEIL, N. I. (with Gibb, W. R., Gordon, T., Harding, J.) 1985. Addition of fibre supplementation to low protein diet for chronic renal failure. *Ibid.*, 32P.

COHEN, S. L. (with others) 1986. Immunopathogenesis of Kaposi Sarcoma in renal transplant and dialysis patients. In *Proc. XXIIIrd Congress of the EDTA-European Renal Association and XVth Annual Conference of the EDTNA-European Renal Care Association, Budapest, Hungary, June-July 1986.* (Sweden: Gambro) 184P.

COHEN, S. L. 1986. Cyclosporine poorly tolerated in Familial Mediterranean Fever. *Ibid.*, 183P.

COHEN, S. L. (with others) 1986. Hyperuricaemia in cyclosporine treated renal transplant recipients. *Ibid.*, 183P.

COHEN, S. L. (and others) 1986. Rhinocerebral mucomycosis in renal transplant recipients. Report of 3 cases and review of the literature. *Reviews of Infectious Diseases,* vol. 8, 441–446.

CORCORAN, J. S., OSWALD, G., YUDKIN, J. S. 1985. A comparison of premixed with patient mixed insulin regimens. *Presented at International Diabetes Federation Meeting, Madrid, September 1985.* Diabetes Research and Clinical Practice, suppl. 1, S110.

CORCORAN, J. S., YUDKIN, J. S. (with Perkins, J.) 1986. A comparison of the efficacy of 3 antihypertensive agents used with bendrofluazide in non-insulin-dependent diabetics. In *Proc. of British Diabetic Association Spring Meeting, Sheffield, April 1986,* P37.

CORCORAN, J. S., YUDKIN J. S. 1985. Visual acuity as a screening test for diabetic eye disease. *Practical Diabetes,* vol. 2, no. 5, 33–36.

CORCORAN, J. S., YUDKIN, J. S. 1986. A comparison of premixed with patient-mixed insulins. *Diabetic Medicine,* vol. 3, 246–249.

CROSS, B. A., SEMPLE, S. J. G., STIDWELL, R. P. (with others) 1985. Continuous arterial pH measurement during exercise in patients with arteriovenous shunts. In *Proc. Physiological Society 12–14 September 1985. J. Physiol.,* vol. 369, 142.

CUSWORTH, D. C., WRONG, O. M. (with Harbar, J. A., Lawes, L. C.) 1986. Comparison of 2-mercapto propionylglycine and D-penicillamine in the treatment of cystinuria. *J. Urol.,* vol. 136, 146–150.

DUDENEY, C., ISENBERG, D. A. (with others) 1986. A study of antipoly (ADP-ribose) antibodies and an anti-DNA antibody idiotype and other immunological abnormalities in lupus family members. *Ann. Rheum. Dis.* vol. 25, 162–166.

EDMONDS, C. J. (with Smith, T.) 1985. Hazards of treatment of thyroid cancer with ^{131}I. *Health Physics Research,* vol. 12, 188.

EDMONDS, C. J. (with Law, A.) 1985. In vivo studies of exogenuous human thyrotrophin. *J. Physiol.,* vol. 365, 116P.

EDMONDS, C. J. (with others) 1985. Prolonged hypoparathyroidism presenting eventually as second trimester abortion. Lesson of the Week Series., *Brit. Med. J.* vol. 291, 955–956.

EDMONDS, C. J. (with Kermode, J. C.) 1985. Thyrotrophin receptors, tumour radioiodine concentration and thyroglobul in secretion in differentiated thyroid cancers. *Br. J. cancer,* vol. 52, 537–541.

EDMONDS, C. J. (with Smith, T.) 1985. The long term hazards of the treatment of thyroid cancer with radioiodine. *Br. J. Radiol.*, vol. 59, 45–51.

EDWARDS, J. C. W. SNAITH, M. L. (with Lefford, F.) 1986. Nailfold capillary microscopy on connective tissue disease. *Ann. Rheum. Dis.*, vol. 45, 741–749.

EDWARDS, J. C. W. (with others) 1986. Degradation of cartilage in contact with solt tissues. *Intl. J. of Tissue Reactions*, vol. 48, 113–117.

EDWARDS, J. C. W. (with others) 1986. Connective tissue abnormalities in MRL/1 pr. mice. *Ann. Rheum. Dis.*, vol. 45, 512–518.

EFTHIMIOU, J., SPIRO, S. G. (with Fleming, J., Edwards, R. H. T.) 1985. Sternomastoid muscle function and fatiguability in patients with severe dyspnoea. *Thorax*, vol. 40, 721.

EFTHIMIOU, J., SPIRO, S. G. (with Edwards, R. H. T.) 1985. The effect of aminophylline on fatigue of the sternomastoid muscle in man. *Ibid.*, 720.

EFTHIMIOU, J. SPIRO, S. G. (with Johnston, C., Turner-Warwick, M.) 1986. Pulmonary complications of Bechets Syndrome. *Quarterly Journal of Medicine*, vol. 58, 259–280.

EFTHIMIOU, J., SPIRO, S. G. (with Fleming, J., Edwards, R. H. T.) 1986. The effect of aminophylline on fatigue of the sternomastoid muscle in man. *Thorax*, vol. 41, 122–127.

EFTHIMIOU, J., SPIRO, S. G. (with others) 1986. The effect of low frequency fatigue on endurance exercise in the sternomastoid muscle of normal man. *American Review of Respiratory Disease*, vol. 133, 667–671.

EFTHIMIOU, J., BETTERIDGE, D. J. (with McLelland, J.) 1986. Short PR intervals and tachyarrhythmias. *Postgraduate Medical Journal*, vol. 62, 285–287.

FLINT, K. C. 1985. Histamine release from human lung mast cells. In *Asthma: Clinical Pharmacology and Therapeutic Progress*, 295–305. A. B. Kay (editor). (London: Blackwell Scientific).

FLINT, K. C. (with others) 1985. I_gE-dependent release of leukotriene C4 and prostaglandin D2 from human bronchoalveolar cells. *Thoax*, vol. 40, 716.

FLINT, K. C., JOHNSON, N., McI. 1985. Pneumothorax. *Respiratory Disease in Practice*, vol. 2, 4–10.

FLINT, K. C., JOHNSON, N. McI. (with others) 1985. Human mast cells recovered by bronchoalveolar lavage: Their morphology, histamine release and the effects of disodium cromoglycate. *Clin. Sci.*, vol. 68, 427–432.

FLINT, K. C., JOHNSON, N. McI. (with others) 1985. Immunological sensitisation and the role of the bronchoalveolar mast cells in asthma. *Annals of Allergy*, vol. 55, 466.

FLINT, K. C., JOHNSON, N. McI. (with others) 1985. Some properties mast cells obtain by human bronchoalveolar lavage. *Brit. J. Pharmacol.*, vol. 85, 205.

FLINT, K. C., JOHNSON, N. McI. (with others) 1985. A comparison of histamine secretion from human basophils and from human lung mast cells obtained by bronchoalveolar lavage and from dispersion of lung fragments. *Clin. Sci.*, vol. 68, 7.

FLINT, K. C., JOHNSON, N. McI. (with others) 1985. Hyperresponsiveness of bronchoalveolar mast calls in sarcoidosis. *Thorax*, vol. 40, 220.

FLINT, K. C., JOHNSON, N. McI. (with others) 1985. Hyperosmolar release of histamine from bronchoalveolar mast cells and it inhibition by sodium cromoglycate. *Ibid.*, 717.

FLINT, K. C., JOHNSON, N. McI. JOHNSON (with others) 1986. Bronchoalveolar mast cells in intrinsix asthma. *Clin. Sci.*, vol. 70, 126.

FLINT, K. C., JOHNSON, N. McI. (with others) 1986. Ectopic genesis of 1, 25-(OH)2 Vitamin D3 in sarcoidosis. *Ibid.*, 19.

FLINT, K. C., JOHNSON, N. McI. (with others) 1985. Bronchoalveolar mast cells in extrinsic asthma: A mechanism for the initiation of antigen specific bronchoconstriction. *Br. Med. J. (Clin Res)*, vol. 291, 923–927.

FLINT, K. C., JOHNSON, N. McI. (with others) 1985. Comparison of intravenous digital subtraction angiography with radionuclide ventilation perfusion lung scanning in patients with suspected pulmonary embolism. *Thorax*, vol. 40, 576–580.

FLINT, K. C., JOHNSON, N. McI. (with others) 1985. Sarcoidosis is not associated with the HTLV III virus. *Sarcoidosis*, vol. 2, 157–158.

FLINT, K. C., POZNIAK, A. L., JOHNSON, N. McI. (with others) 1985. Increased production of gamma interferon in sarcoidosis. *Thorax*, vol. 40, 726.

FORREST, R. D., JACKSON, C. A., YUDKIN, J. (with others) 1985. The characteristics of three glycohaemoglobin assays as screening tests for diabetes mellitus. *International Diabetes Federation Meeting, Madrid, September 1985.* In *Diab. Res. Clin. Practice*, suppl. 1, S174.

FORREST, R. D., JACKSON, C. A., YUDKIN, J. S. 1985. The effect of glucose loading on glycohaemoglobin levels assayed by 3 methods. *Ibid.*, S174.

GORSUCH, A. N. (with Bottazzo, G. F., Gale, E.) 1986). Will this child get diabetes? *Diabetes Countdown*. vol. 2, 8–11.

GORSUCH, A. N. (with Gamble, D. R., Ingram, D.) 1985. HLA-linked susceptibility to Type 1 diabetes (IDDm) and poliovirus antibody titres after polio vaccination. *International Diabetes Federation Meeting, Madrid, September 1985.* In *Diab. Res. Clin. Practice*, suppl. 1, 119–200.

GRIFFITH, D. N. W., YUDKIN, J. S. 1986. Diabetic ketoacidosis. *Br. J. of Hospital Medicine*, vol. 35, 82–87.

HAGUE, W. M., ABDULWAHID, N. A., JACOBS, H. S. (with Craft, I.) 1986. Use of LHRH analogue to obtain reversible castration in a patient with benign metastasising leiomyoma. *Br. J. Obstetrics and Gynaecology*, vol. 93, 455–460.

HAGUE, W. M., JACOBS, H. S. (with Tan, S. L., Becker, F.) 1986. Autoimmune premature ovarian failure with polyendocrinopathy and spontaneous recovery of ovarian follicular activity. *Fertility and Sterility*, vol. 45, 421–424.

HARDING, J. M., MODELL, M. 1985. How patients manage asthma. *Journal Royal College Gen. Pract.*, vol. 35, 226–228.

HARDING, J. M., MODELL, M., FREUDENBERG, S., MACGREGOR, R., REA, J. W., STEEN, C. A., WOJCIECHOWSKI, M., YUDKIN, G. D. 1985. Prescribing; the power to set limits. *Brit. Med. J.*, vol. 290, 450–453.

HELMAN, C. 1985. The consultation in context. *Holistic Medicine*, vol. 1, 37–41.

HENDRA, T. J., OSWALD, G. A., YUDKIN, J. S. 1986. Platelet size in diabetics after myocardial infarction. In *Proc. British Diabetic Association Spring Meeting, Sheffield, April 1986*, P42.

HETZEL, M. R. 1986. Nachtliches Asthma. In *Proc. 4th Charlottenberger Pneumologisches Gessprach. Berlin W. Germany 1985.* (Berlin: Walter de Gruyer) 95–99.

HETZEL (with George P. J. M.) 1986. The role of lasers in lung cancer. *Respiratory Disease in Practice*, vol. 3, 12–15.

HETZEL, M. R. (with George P. J. M., Garrat C. P. O.) 1986. Laser treatment of tracheobronchial tumours: local or general anaesthesia? In *Proc. 4th Annual Conf. of British Medical Laser Association, London, 22–23 January 1986.*HETZEL, M. R. (with Hoffbrand, B. I., Goldstraw, P.) 1985. Fibrosing pleuritis with extrathoracic extension. *J. Royal Society of Medicine,* vol. 78, 953.

HETZEL, M. R. (with others) 1985. Is sodium cromoglycate effective in nocturnal asthma? *Thorax,* vol. 40, 793–794.

HETZEL, M. R. (with others) 1985. Amyloidosis of the respiratory tract treated by laser therapy. *Ibid.,* 544–545.

HIND, C. R. K. (with others) 1986. Pathogenetic mechanisms and precursor-product relationships in accelerated (AEF) murine amyloidosis. In *Amyloidosis,* G. C. Glenner and others (editors), New York, November 1984. (New York: Plenum Press). 101–108.

HIND, C. R. K. (and others) 1986. Isolation and characterisation of amyloid enhancing factor. *Ibid.,* 115–122.

HIND, C. R. K. (and others) 1986. Specific chemical dissociation of fibrillar and non-fibrillar components of amyloid deposits. *Ibid.,* 233–240.

HIND, C. R. K. (and others) 1986. Non-invasive techniques for demonstrating cardiac involvement in the acquired forms of systemic amyloidosis. *Ibid.,* 617–620.

HIND, C. R. K., FLINT, K., JOHNSON, N. McI. (and others) 1986. Acute phase response in patients with active pulmonary sarcoidosis. *British Thoracic Society, London 1985. Thorax,* vol. 41, 231.

HIND, C. R. K., FLINT, K. C., JOHNSON, N. McI. (with others) 1986. Absence of acute phase response in patients with active pulmonary sarcoidosis. *Thorax,* vol. 41, 231.

HIND, C. R. K., TREASURE, T. (and others) 1985. Changes in plasma leucocyte elastase concentration during and after cardiopulmonary bypass. *Medical Research Society, London 1986. Clinical Science,* vol. 70, 80P.

HIND, C. R. K., TREASURE, T. (and others) 1986. Plasma free radical activity during and after cardiopulmonary bypass. *Medical Research Society, Dublin, 1986. Clinical Science,* vol. 71, 53P.

HURWITZ, B., MODELL, M., YUDKIN, J. S. 1986. *Diabetes, a chronic disease in general practice.* Booklet and accompanying video designed for General Practice trainee groups. (London: MSD. Foundation).

ISENBERG, D. A. (with Collins, C.) 1985. Detection of cross-reactive anti-DNAantibody idiotypes on renal tissue bound immunoglobulins from lupus patients. *Journal Clin. Invest.,* vol. 76, 287–294.

ISENBERG, D. A. (with others) 1986. Shared idiotypes are expressed on mouse and human anti-DNA autoantibodies. *Immunology,* vol. 56, 393–400.

ISENBERG, D. A. (with others) 1986. Localization of interferons and IL-2 in polymyositis and muscular dystrophy. *Clin. Exp. Immunol.,* vol. 63, 450–458.

ISENBERG, D. A., EFTHIMIOU, J. (with others) 1986. Heterozygous C2 deficiency associated with angioedema, myasthenia gravis and systemic lupus erythematosus. *Ann. Rheum. Dis.,* vol. 45, 428–430.

ISENBERG, D. A., DUDENEY, C. (with others) 1985. Detection of cross reactive anti DNA antibody idiotypes in the serum of lupus patients and their relatives. *Arthritis Rheum.,* vol. 28, 999–1007.

ISENBERG, D. A., SNAITH, M. L. (with others) 1986. A study of the relationship between anti-DNA antibody idiotypes and anti cardiolipin antibodies with disease activity in systemic lupus erythematosus. *Medicine* (Baltimore), vol. 66, 46–55.

ISENBERG, D. A., SNAITH, M. L. (with others) 1986. Haematological reassessment of rheumatoid arthritis using an automated method. *Brit. J. Rheum.*, Vol. 25, 152–157.

JACKSON, R. A. 1986. Obesity: its pathogenesis and the doctor-patient relationship. *Practical Diabetes*, vol. 3, 126–129.

JACOBS, H. S. (Editor) 1985. Reproductive Endocrinology. *Clinics in Obstetrics and Gynaecology*, vol. 12, no. 3.

JACOBS, H. S. 1985. Conservative management of prolactinoma. In *Prolactinomas, An Interdisciplinary Approach*, 319–326. L. M. Auer, G. Leb, G. Tscherne, W. Urdl, G. F. Walker (editors). (Berlin, New York: Walter de Gruyter).

JACOBS, H. S. 1986. Induction of ovulation in woman using pulsatile LHRH – clinical results in therapeutic applications of LHRH. In *Proc. Symposium of Royal College of Physicians*. S. R. Bloom, H. S. Jacobs (editors). London, January 1985 International Congress and Symposium Series No. 105 (London: Royal Society of Medicine Services Ltd.) 99–109.

JACOBS, H. S., (with Miller, J. A.) 1986. Treatment of hirsuitism and acne with cyproterone acetate. *Clinics in Endocrinology and Metabolism*, vol. 15, 373–389.

JACOBS, H. S. (with Morris, D. V., Adams, J.) 1985. The investigation of female gonadal disorders. *Clinics in Endocrinology and Metabolism*, vol. 14, 125–143.

JACOBS, H. S. (with Tan, S. L.) 1985. Recent advances in the management of patients with amenorrhoea. *Clinics in Obstetrics and Gynaecology*, vol. 12, 725–747.

JACOBS, H. S. (with Tan, S. L.) 1986. Rapid regression through bromocriptine therapy of a suprasellar extending prolactinoma during pregnancy. *International Journal of Obstetrics and Gynaecology*, vol. 24, 209–215.

JACOBS, H. S. (with Tan, S. L., Morris, D. V.) 1986. The management of hyperprolactinaemia. *Singapore Medical Journal*, vol. 27, 190–195.

JACOBS, H. S. (with Tayob, Y., Adams, J., Guillebaud, J.) 1985. Ultrasonographic demonstration of increased frequency of functional ovarian cysts in progestogen only pill users. *British Journal of Obstetrics and Gynaecology*, vol. 92, 1003–1009.

JACOBS, H. S. (with Tayob, Y., Guillebaud, J., Adams, J.) 1986. Studies on ovarian function in users of the progestogen only contraceptive pill. *British Journal of Obstetrics and Gynaecology*, vol. 6, suppl 2, 591–595.

JACOBS, H. S. (with Wynn, V., Godsland, I. F. Seed, M.) 1986. Paradoxical effects of the anti-androgen cyproterone acetate on lipid and lipoprotein metabolism. *Clinical Endocrinology*, vol. 24, 183–192.

JACOBS, H. S. (with others) 1986. Ovulation and normal luteal function during LHRH treatment of women with hyperprolactinaemic amenorrhoea. 531–537.

JACOBS, H. S. (with others) 1985. Pulsatile GnRH in women with hyperprolactinaemic amenorrhoea. In *Pulsatile GnRH 1985 Proc 3rd Ferring Symposium*. H. J. T. Coelingh-Bennink, A. A. Dogteron, R. E. Lappohn, R. Rolland, J. Schoemaker, B. V. Ferring (editors). *Haarlem, The Netherlands, 1985*. 125–130.

JACOBS, H. S. (with others) 1986. Antiandrogen treatment in women with acne – a controlled trial. *British Journal of Dermatology*, vol. 114, 705–716.

JACOBS, H. S., ABDULWAHID, N., ARMAR, N. A., BROOK, C. G. D., STANHOPE, R. (with others) 1985. Endocrine control of follicular growth in humans.

In *Gamete Quality and Fertility Regulation*. 257–267. R. Rolland (editor). (Elsevier Science Publishers BV).

JOHNSON, N. McI. 1985. *Pocket Consultant of Respiratory Medicine*. (England: Blackwell Scientific Publications) 369 pp.

JOHNSON, N. McI. 1986. *MCQ – Questions in Respiratory Medicine*. (Oxford: Blackwell Scientific Publications) 122 pp.

JOHNSON, N. McI. (with Hockley, B.) 1985. A comparison of three high doses of ipratropium bromide in chronic asthma. *Br. J. Dis. Chest.*, vol. 79, 379–384.

JOHNSTON, I. D. A. (with others) 1985. Respiratory sequelae of whooping cough. *Brit. Med. J.*, vol. 291, 482–483.

JOHNSTON, I. D. A. (with others) 1985. Reading attainment and physical development after whooping cough. *Journal of Epidemiology and Community Health*, vol. 39, 314–319.

JOHNSTON, I. D. A. (with others) 1986. The pharmacokinetics of Uniphyllin in nocturnal asthma. *Brit. J. Dis. Chest*, vol. 80, 235–241.

JOHNSTON, I. D. A. (with others) 1986. Effect of whooping cough in infancy on subsequent lung function and bronchial reactivity. *Am. Rev. Resp. Dis.*, vol. 134, 270–275.

JOHNSON, N. McI., FLINT, K. C. (with Hudspith, B. N., Brostoff, J.) Interleukin I production in sarcoidosis. *Sarcoidosis*, vol. 1, 225.

JOHNSON, N. McI., FLINT, K. C. (with others) 1985. The role of interleukin I in the in vitro anergy observed in sarcoidosis. *Clin. Sci.* vol. 68, 25.

JOHNSON, N. McI., POZNIAK, A. L. 1986. *Mock MCQ exams for MRCP Part I.* (Springer, Berlin).

JONES, D. A. (with Edwards, R. H. T.) 1986. Muscle strength and metabolism. In *Recent Advances in Restorative Neurology* 2, *Progressive Neuromuscular Diseases*, 123–138. D. Dimitrijevicc, B. Kakulas, G. Vobova (editors). (Basel: Karger).

JONES, D. A., NEWHAM, D. J., ROUND, J. M. (with Tolfree, S. E. J.) 1986. Experimental human muscle damage: morphological changes in relation to other indices of damage. *Journal of Physiology*, vol. 375, 435–448.

KAZANTZIS, G. 1986. Occupational Medicine. In *The Oxford Companion to Medicine*, 929–934. J. Walton, P. B. Beeson, R. Bodley Scott (editors). (Oxford University Press).

KAZANTZIS, G. 1986. Diagnosis and Treatment of Metal Poisoning – General Aspects. In *Handbook on the Toxicology of Metals* (2nd edit.), vol. 1, 294–318. L. Friberg, G. F. Nordberg, V. Vouk (editors). (Amsterdam: Elsevier Science Publications).

KAZANTZIS, G. 1986. Thallium. *Ibid.*, 549–567.

KAZANTZIS, G. 1986. Tungsten. *Ibid.*, 610–622.

KAZANTZIS, G. 1986. Cadmium: sources, exposure and possible carcinogenicity. In *Environmental Carcinogens Selected Methods of Analysis*, vol. 8, 93–101. I. K. O'Neil, P. Schuller, L. Fishbein (editors). (Lyon: WHO International Agency for Research on Cancer, United Nations Environmental Programme).

KAZANTZIS, G. 1986. Lead: sources, exposure and possible carcinogenicity. *Ibid.*, 103–111.

KAZANTZIS, G. (with Lam, T. H.) 1986. Cancer mortality of cadmium workers. *British Journal of Industrial Medicine*, vol. 43, 6, 430–431.

KAZANTZIS, G. (with Lilly, L. J.) 1986. Mutagenic and carcinogenic effects of metals. In *Handbook on the Toxicology of Metals* (2nd edition), vol. 1, 319–390. L. Friberg, G. F. Nordberg, V. Vouk (editors). (Amsterdam: Elsevier Science Publications).

KURTZ, A. B. 1985. Antibodies to Insulin. In *Brittle Diabetes*, 60–67. J. Pickup (editor). (Oxford: Blackwell Scientific Publications).

KURTZ, A. B. 1986. Insulin antibodies. In *Immunology of Endocrine Disease*, 89–102. A. M. McGregor (editor). (Lancaster: MTP Press).

KURTZ, A. B. 1986. Interet clinique de la resistance a l'insuline et des anticorps anti-insuline. In *Journees de Diabetologie*, 145–154 (Paris: Flammarion Medecine-Sciences).

KURTZ, A. B. (with others) 1985. The effect of insulin deprivation on fasting levels of 5000 Dalton gastric inhibitory polypetpide in type 1 (insulin-dependent) diabetics. *Diabete and Metabolisme (Paris)*, vol. 11, 364–367.

KURTZ, A. B. (with others) 1985. A prospective study of the immunogenicity of porcine insulin in HLA-typed new insulin-treated diabetics. *Diabetes Research*, vol. 2, 221–224.

KURTZ, A. B., DI SILVIO, L., (with others) 1985. Lymphocyte proliferation as a test of the immune response to insulin in diabetics. *Ibid.*, 175–178.

LEAKER, B. R. (with others) 1986. Correlation of clinico-pathological parameters with outcome using multiple regression analysis in lupus nephritis. Perth, Australia 1986. *Kidney International*, vol. 30, 616.

LEAKER, B. R. (with others) 1986. Triamterene induced cylinduria and crystalluria: An animal model. *Ibid.*, 616.

LEAKER, B. R. (with others) 1986. Rapid improvement in lupus glomerular lesions following intensive plasma exchange. *Ibid.*, 616.

LEAKER, B. R. (with others) 1986. Lupus nephritis: Clinical and pathological correlation. *Ibid.*, 629.

LEAKER, B. R. (with others) 1986. The effect of eicosapentanoic acid on active lupus nephritis. *Ibid.*, 629.

LEAKER, B. R. (with others) 1986. Rapid improvement in severe lupus glomerular lesions following intensive plasma exchange associated with immunosuppression. *Clinical Nephrology*, vol. 25, no. 5, 236–244.

McNEIL, N. I., WAGER, J. 1986. The importance of mucus in the colon micro-climate. *Gut*, vol. 27, A593.

MODELL, M. 1985. Using the family doctor, medical procedures and infection. In *MacMillan Guide to Child Health*, 88–93. D. Hull (editor). (London: Macmillan).

MODELL, M. 1986. Audit report-reimmunisation of teenagers in a central London Practice. *Brit. Med. J.* vol. 292, 1051.

NABARRO, J. D. N. 1985. Childhood diabetes. In *Proc. of the Third Congress of Endocrinology*. B. K. Khalid and M. L. Ng (editors), Kuala Lumpur, November 1985. (Asian Federation of Endocrine Societies) 55–63.

NABARRO, J. D. N. 1985. The management of pituitary disorders. *Ibid.*, 93–103.

NABARRO, J. D. N. 1985. Pituitary tumours – the Physicians view. *Trans. of the Medical Society of London*, vol. 99–100, 148–155.

NABARRO, J. D. N. 1985. Compression fractures of the dorsal spine in hypoglycaemic fits in diabetics. *Brit. Med. J.*, vol. 291, 1320.

NABARRO, J. D. N. 1986. Transsphenoidal surgery for Cushings syndrome. *Journal of the Royal Society of Medicine*, vol. 79, 253–254.

NABARRO, J. D. N. 8 June 1986. LBC AM programme.

NABARRO, J. D. N. 12 June 1986. Radio 4, You and Yours.

NEWHAM, D. J., JONES, D. A. (with Edwards, R. H. T.) 1986. Plasma creatine kinase changes after eccentric and concentric contractions. *Muscle and Nerve*, vol. 9, 59–63.

NEWHAM, D. J., JONES, D. A. (with Tolfree, S. E. J., Edwards, R. H. T.) 1986. Skeletal muscle damage: a study of isotope uptake, enzyme efflux and pain after stepping exercise. *European Journal of Applied Physiology*, vol. 55, 106–112.

O'RIORDAN, J. L. H. (with others) 1986. Evidence for extra-renal metabolism of 25-hydroxy D3 in man. *Clinical Science*, vol. 71, 95–98.

O'RIORDAN, J. L. H. (with others) 1986. Development and application of a mid-region specific assay for human parathyroid hormone. *Clinical Endocrinology*, vol. 24, 365–373.

O'RIORDAN, J. L. H. (with others) 1986. Effects of decreasing serum calcium on circulating parathyroid hormone and vitamin D metabolites in normocalcaemic and hypercalcaemic patients treated with APD. *Bone and Mineral*, vol. 1, 69–78.

O'RIORDAN, J. L. H. (with others) 1986. Circulating concentrations of 1, 25-dihydroxy vitamin D3 in patients with primary hyperparathyroidism. *Ibid.*, 137–144.

O'RIORDAN, J. L. H. (with others) 1986. Vitamin D3, gamma interferon and control of proliferation of mycobacterium tuberculosis by human monocytes. *Immunology*, vol. 57, no. 1, 159–163.

OSWALD, G. A., YUDKIN, J. S. (with others) 1985. Is acute glucose intolerance and independent risk factor following acute myocardial infarction? *International Diabetes Federation Meeting, Madrid, September 1985. Diab. Res. Clin. Practice*, suppl. 1, S429.

OSWALD, G. A., YUDKIN, J. S. (with Oppenheimer, S. M., Hoffbrand, B. I.) 1985. Diabetes mellitus and early mortality from stroke. *Brit. Med. J.*, vol. 291, 1014–1015.

OSWALD, G. A., YUDKIN, J. S., SMITH, C., BETTERIDGE, D. J. (with Delamothe, A. P.) 1985. Enhanced platelet activation in diabetic subjects with acute myocardial infarction. *International Diabetes Federation Meeting, Madrid, September 1985. Diab. Res. Clin. Practice*, suppl. 1, S429.

OUGHTON, J., COOPER, M. B., FORTE, C. A., YUDKIN, J. S., JONES, D. A., ROUND, J. (with Gould, B. A.) 1986. Glycosylation of left ventricular myosin and its measurement. In *Proc. British Diabetic Association Meeting, Sheffield, April 1986.* P113.

POZNIAK, A. L. 1985. MRCP Part 2: clinical slides, data interpretation and long cases. *British Journal of Hospital Medicine* (suppl), vol. 6, 169–175; vol. 7, 201–208.

POZNIAK, A. L. (with Banks, R. A., Lindley, K. J.) 1985. AIDS: A problem for intensive care. *Intensive Care Medicine*, vol. 11, 169–171.

POZNIAK, A. L. (with others) 1985. Haemostatic Parameters: pilot study with Cefotetan compared with other antibiotics. *4th Mediterranean Congress of Chemotherapy Proceedings, Rhodes.* Abstract no. 25.

POZNIAK, A. L., BIHARI, D., JOHNSON, N. McI., (with Hayward, R.) 1985. The hypokalaemia induced by nebulised Salbutamol is prevented by B2 blockade and does not cause cardiac arrhythmias. *Clinical Science*, vol. 68, 78.

POZNIAK, A. L., BIHARI, D., KURTZ, A., JOHNSON, N. McI. (with Freedman, D.) 1985. Metabolic and cardiac effects of nebulised salbutamol in normal volunteers. *Thorax*, vol. 40, 706.

POZNIAK, A. L., FLINT, K. C., JOHNSON, N. McI. 1985. Pneumonia in the acquired immunodeficiency syndrome. *Ibid.*, 227.

POZNIAK, A. L., JOHNSON, N. McI. 1985. Instructions for inhalers. *Brit. Med. J.*, vol. 290, 157; vol. 291, 923–927.

POZNIAK, A. L., SWINBURN, C. R., JOHNSON, N. McI. 1985. AIDS pneumonia. *British Journal Dis. Chest,* vol. 79, 105–113.

POZNIAK, A. L., SWINBURN, C. R., JOHNSON, N. McI. (with Heron, C., Hinde, A.) 1985. Radiographic features in patients with pulmonary complications of AIDS. *Clinical Radiology,* vol. 36, 583–588.

PURI, A., SLATER, J. D. H. (with Casburn-Budd, R., Eisen, V.) 1985. Simpler measurements of albumin in urine or plasma. *Clin. Chem.*, vol. 31, 1241–1242.

ROSS, M. 1986. Treatment of hypertension: review necessary after screening. *Brit. Med. J.*, vol. 292, 384.

RUTHERFORD, O. M., JONES, D. A. 1986. The role of learning and coordination in strength training. *European Journal of Applied Physiology,* vol. 55, 100–105.

SEGAL, A. W., ISENBERG, D. A., SNAITH, M. L. (with others) 1986. Evidence for gut involvement in the pathogenesis of rheumatoid arthritis. *Ann. Rheum. Dis.*, vol. 25, 162–166.

SEMPLE, S. J. G. (with others) 1985. Dynamics of the early ventilatory and circulatory responses to voluntary and electrically-induced exercise in man. In *Proc. of the Physiological Society, 12–14 September 1985. J. Physiol.*, vol. 369, 142.

SKLAR, E. (with Craig, A.) 1986. How the General Practitioner can help the handicapped family. *Physician,* vol. 5 No. 2, 623–624.

SLATER, J. D. H. (with Daniels, C. R., Eisen, V.) 1986. Reduced activation and affinity of renin during pregnancy and oral contraception. Determination of kinetic parameters by fully autologous plasma renin assays. In *KININS IV.*, 463–470. L. M. Greenbaum, H. Margolius (editors). (London and New York: Plenum Press).

SLATER, J. D. H. (with Eisen, V., Munday, M. R.) 1986, Role of Kininase 11 (ACE; E.C.3.4.15.1) in the regulation of renin secretion. *Ibid.*, 495–502

SMITH, C. C. T., DICKSON, A. C., BETTERIDGE, D. J. 1985. Non-enzymatic glycosylation of plasma lipoproteins in vitro. *Diabetes Research,* vol. 2, 277–282.

SMITH, C. C. T., ROUND, J. M., BETTERIDGE, D. J. (with Weir, T. B.) 1986. Catecholamine stability in whole blood plasma and platelets. *Clinical Chemistry,* vol. 32, 882–883.

SMITH, C. C. T., WILSON, A. P., PRICHARD, B. N. C., BETTERIDGE, D. J. 1986. Stimulus-induced release of endogenous catecholamines from human washed platelets. *Clinical Sciences,* vol. 70, 495–500.

SNAITH, M. L. (with Barrett, C., Neylon, N.) 1986. Oestrogen-induced S. L. E. *Brit. J. Rheum.*, vol. 5, 300–301.

SPIRO, S. G. 1986. The staging of lung cancer. In *Recent Advances in Respiratory Medicine.* D. C. Flenley, T. L. Petty (editors). (Edinburgh: Churchill Livingstone).

SPIRO, S. G. (with others) 1986. The effect of particle size on bronchodilator aerosols on lung distribution and pulmonary function. *Thorax,* vol. 41, 721.

SPIRO, S. G. (with others) 1986. Quality of life during chemotherapy for small cell carcinoma of the lung. *Ibid.*, 719.

SPIRO, S. G. (with others) 1986. Fatal haemorrhage from mycotic aneurysms of the pulmonary artery. *Ibid.*, 70–71.

SPIRO, S. G., SOUHAMI, R. (with others) 1985. Social consequences of brain or liver relapse in small cell carcinoma of the bronchus. *Radiotherapy and Oncology,* vol. 4, 335–339.

STAMP, T. C. B. (with Ali, S. Y., Dopping-Heppinstal, P.) 1986. Election microscope changes in the osteoid of patients with Fibrogenesis Imperfecta Ossium. *Bone,* vol. 7, 146.

STAMP, T. C. B. (with Ali, S. Y., Ralphs, J., Dopping-Heppinstall, P.) 1985. Ultrastructural changes in the osteoid of patients with Fibrogenesis Imperfecta Ossium. *Journal of Bone and Joint Surgery,* vol. 67B, 318.

STAMP, T. C. B. (with others) 1986. Bone metabolism in osteosclerotic multiple myeloma. *Bone,* vol. 6, 283.

STAMP, T. C. B. (with others) 1986. Bioactive parathyroid hormone in osteoporosis: effects of sodium fluoride. *Bone,* vol. 7, 164–165.

STAMP, T. C. B., JENKINS, M. V. (with Byers, P. D., Ali, S. Y. and others) 1986. Fibrogenesis Imperfecta Ossium remits with mephalan. *Ibid.,* 146–147.

STANHOPE, R., BROOKS, C. G. D., JACOBS, H. S. (with Morris, D. V.) 1985. Fertility or puberty: pulsatile LHRH therapy in males. In *LHRH Therapy in Males,* 89–95. T. Wagner (editor). (West Germany: T. M. Verlag).

STANHOPE, R., PRINGLE, J., ABDULWAHID, N., MILES, K., JACOBS, H. S., BROOKS, C. G. D. (with others) 1986. Problems in inducing puberty by pulsatile GnRH. In *Pulsatile GnRH 1985 Proc. 3rd Ferring Symposium.* H. J. T. Coelingh-Bennik, A. A. Dogteron, A. A., Lappohn, R. E., R. Rolland, J. Schoemaker, B. V. Ferring, (editors). (Haarlem: The Netherland.) 225–233.

SWINBURN, C. R., POZNIAK, A. L., JOHNSON, N. McI. 1985. Repeat investigations in pneumocystis pneumonia. *Lancet,* I, 987.

SWINBURN, C. R., POZNIAK, A. L., JOHNSON, N. McI. (with others). *Thorax,* vol. 40, 166–170.

TREASURE, T. 1985. Which heart valve prosthesis? Editorial. *Lancet,* 756–758.

TREASURE, T. 1985. Cerebral complications of cardiac surgery. Current Medical Literature: *Cardiovascular Disease,* vol. 4, 33–37.

TREASURE, T. 1986. Dissection of the Thoracic Aorta. In *Recent Advances in Surgery, Number 12,* 297–300. R. C. G. Russell (editor). (Edinburgh: Churchill Livingstone).

TREASURE, T. (with Adams, J.) 1985. Variable anatomy of the right coronary aertery supply to the left ventricle. *Thorax,* vol. 40, 618–620.

TREASURE, T. (with Drake, H. F.) 1986. Continuous clinical monitoring with ion-selective electrodes – A feasible or desirable objective? *Intensive Care Med.,* vol. 12, 104–107.

TREASURE, T. (with Ho, S. Y., Adams, J., Thiene, G.) 1985. Single coronary artery from the right sinus. *American Journal of Cardiology,* vol. 55, 865–866.

TREASURE, T. (with Sturridge, M. F.) 1985. *Belcher's Thoracic Surgical Management* (5th edition). (London: Bailiere Tindall).

TREASURE, T. (with Treasure, J. L., Poth, D. W.) 1985. Continuous measurement of potassium concentration in blood during haemodialysis with an ion-specific electrode. In *Ion Measurement in Physiology and Medicine.* M. Kessler et al. (editors). (Berlin: Springer-Verlag).

TREASURE, T. (with Wilson, A. P. R., Gruneberg, R. N., Sturridge, M. F.) 1986. A clinical trial of teicoplanin compared with a combination of flucloxacillin and tobramycin as antibiotic prophylaxis for cardiac surgery: the use of scoring method to assess the incidence of wound infection. *J. of Hosp. Med.,* vol. 7 (suppl. A), 105–112.

TREASURE, T. (with Wilson, A. P. R., Gruneberg, R. N., Sturridge, M. F.) 1986. A scoring method (asepsis) for prostoperative wound infections for use in clinical trials of antibiotic prophylaxis. *Lancet,* Feb., 311–312.

TREASURE, T. (with Wilson, A. P. R., Sturridge, M. F., Gruneberg, R. N.) 1986. Antibiotic prophylaxis in cardiothoracic surgery in the United Kingdom; current practice. *Thorax,* vol. 41:5, 396–400.

TREASURE, T. (with others) 1985. Factors relating to the development of hypertension after cardiopulmonary bypass. *Br. Heart J.,* vol. 54, 91–95.

TREASURE, T. (with others) 1986. Use of monophasic action potential recordings during routine coronary artery bypass surgery as an index of localised myocardial ischemia. *Lancet,* I, 1462–1465.

TREASURE, T. 7 Jan 1986. Radio 4, "Medicine Now" programme.

VINCE, A. J. 1986. Metabolism of ammonia, urea, and amino acids and their significance in liver disease. In *Microbiol Metabolism in the Digestive Tract.* M. J. Hill (editor). (Boca Raton, Florida: CRC Press).

YUDKIN, J. S. 1985. Drugs and underdevelopment. In *Proc. of the Primary Health Care Symposium* No. 3, *Therapeutic Aspects,* 15–21. D. Stephenson (editor). (Liverpool: School of Tropical Medicine).

OBSTETRICS AND GYNAECOLOGY

CHAN, B., PETROU, M., KNOTT, P., WARD, R. H. T., MODELL, B. (with Penketh, R., Corney, G.) 1985. The vanishing twin: a possible cause for misdiagnosis in the first trimester of pregnancy. *Clin. Genet.,* vol. 28, no. 5, 420–421. (abstract).

COLLEY, N. (with Houang, E., Chapman, M.) 1985. Penetration of Sabbactam-Ampicillin and Clarularic acid-ampicillin into the pelvic peritoneum. *Antimicrobial Agents and Chemotherapy,* vol. 28, 165–166.

COLLEY, N. (with Southall, D. P., Talbert, D. G.) 1985. Overnight recordings of fetal hear sounds and fetal movements. *Europ. J. Obstet. Gynaecol. Rep. Biol.,* vol. 20, 85–86.

COLLEY, N. (and others) 1986. Wide bandwidth fetal phonography using a sensor matched to the compliance of the mothers abdominal wall. *IEEE Trans. Biomed. Eng.,* vol. 33, 175–181.

COLLEY, N. (and others) 1986. The fetal phonogram: a measure of fetal activity. *Lancet* I, 931–935.

DARNE, J., McGARRIGLE, H. H. G., LACHELIN, G. C. L. 1986. Increased saliva (unbound unconjugated) oestriol (E_3): Progesterone (P) ratio in women before preterm labour. In *Proc. 24th British Congress of Obsetrics and Gynaecology, Cardiff, 1986* Abst. 223.

FAIRWEATHER, D. V. I. (with Liu, D. T. Y.) (Editors) 1985. *Labour Ward Manual.* (London: Butterworth & Co.). 124 pp.

FAIRWEATHER, D. V. I. 1985. Infection and inflammation of the vulva, 97–107. Vaginitis and vaginal discharge, 108–113. Cervicitis and cervical erosion, 114–118. Endometritis, pyometra and haematometra, 119–122. Salpingo-oophoritis, 123–129. In *Gynaecology by Ten Teachers* (14th edition). S. G. Clayton, T. L. T. Lewis, G. D. Pinker (editors). (London: Edward Arnold).

FAIRWEATHER, D. V. I. 1985. APH, 130–142. PPH and abnormalities of 3rd stage, 292–300. Oxytocic drugs, 352–355. Coagulation disorders and thrombosis, 366–375. In *Gynaecology by Ten Teachers* (14th edition). S. G. Clayton, T. L. T. Lewis, G. D. Pinker (editors). (London: Edward Arnold).

FAIRWEATHER, D. V. I. 1985. Indications de la cesarienne avant 32 semaines et en cas de presentation du siege. In *Medecine Perinatale 15 emes Journees Nationales (Nice 1985) Societe Francaise de medicine Perinatale,* 61–72. B. Blanc, J. M. Thoulan (editors). (Paris: Librairie Arneette).

FAIRWEATHER, D. V. I. 1986. Mechanisms and treatment of nausea and vomiting in pregnancy. In *Nausea and Vomiting: Mechanisms and Treatment,* 151–159. C. J. Davis, G. V. Lake-Bakaar, D. G. Grahame-Smith (editors). (Berlin: Springer-Verlag).

HISLOP, A. A. (with Wigglesworth, J. S., Desai, R.) 1986. Alveolar development in the human fetus and infant. *Early Human Development,* vol. 13, 1–11.

KANOKPONGUSKDI, S., WARD, R. H. T., PETROU, M., MODELL, B., FAIRWEATHER, D. V. I. 1985. Diagnostic fetal blood sampling for the haemoglobinopathies – 10 year experience. *Europ. J. Obstet. Gynec. reprod. Biol.,* vol. 20, 35–41.

KAUFMAN, L. (Editor) 1985. *Anaestheisa Review 3.* (Edinburgh: Churchill Livingstone.) 216 pp.

KAUFMAN, L. 1985. Controversies in obstetrics. *Ibid.,* 145–155.

KAUFMAN, L. 1985. Update to Review 2. *Ibid.,* 205–212.

KNOTT, P. D. 1986. Chorionic villus sampling using the Portex catheter. In *Proc. 24th British Congress of Obstetrics and Gynaecology, Cardiff 1986.* Abstr. 280.

KNOTT, P. D. (with Lucas, M. K.) 1986. Early pregnancy counselling for older mothers. *Ibid.,* Abstr. 11.

LACHELIN, G. C. L. 1985. *Miscarriage: The Facts.* (Oxford: University Press.). 81 pp.

LACHELIN, G. C. L., DARNE, J. McGARRIGLE, H. H. G. 1986. Increased saliva (unbound unconjugated) estriol/progesterone ratio in women before preterm labor. In *Meeting of Society for Gynecologic Investigation, Toronto, March 1986.* Abst. 115.

LAWRENCE, D., KATZ, M. (with Shaw, M.) 1986. Elevated free testosterone concentration in men and women with acne vulgaris. *Clin. Exp. Dermatol.,* vol. 11, 263–273.

MAXWELL, D. J. (with Blau, K., Johnson, R. D., Lilford, R. J.) 1985. Activities of alkaline phosphatase in first trimester chorion biopsy tissue. *Prenat. Diag.,* vol. 5, 283–286.

MAXWELL, D. J., (and others) 1986. Transabdominal chorionic villus sampling. *Lancet* I, 123–126.

MAXWELL, D. J., MODELL, B., PETROU, M., WARD, R. H. T. 1986. Second trimester chorionic villus sampling. Lancet I, 969. (Letter).

McGARRIGLE, H. H. G., DARNE, J., LACHELIN, G. C. L. 1985. Increased saliva (unbound unconjugated) oestriol/progesterone ratio in women before preterm labour. *Acta Endocrinol.,* vol. 109, suppl. 270, 116 (abstract).

MILLS, A. 1986. Teenagers and contraception. *Brit. Med. J.* vol. 292, 697. (Letter).

MILLS, A. 1986. A differential diagnosis for a vulval naevus – a short case report. *Br. J. Fam. Plan.,* vol. 12, no. 1, 14.

MILLS, A. 1986. Journal review of Contraception. *Ibid.,* 25.

MILLS, A. 1986. Precis of consumer choices in family planning clinics by Robert Snowden. *Ibid.,* 26–28.

MILLS, A. (and others). 1986. Clinical trial of spermicide-free, custom fitted, valved cervical cap (contracep (M)). *Br. J. Fam. Plan.*, vol. 11, 125–131.

PETROU, M., MODELL, B., WARD, R. H. T. (and others), 1985. Feasibility of first trimester diagnosis of beta-Thalassaemia using DNA posymorphisms in the Cypriot population. In *First Trimester Fetal Diagnosis*, 263–270. M. Fraccaro (editor). (Berlin: Springer-Verlag).

SATHANANDAN, M. (with Briggs, D. W.) 1986. Urethrocleisis – a modification of the conventional urethral buttressing operation for the cure of genuine stress incontinence. *J. Obstet. Gynaecol.*, vol. 6, 271–274.

SINGER, A. 1985. How long do we need to follow them up after laser cases. In *Proc. of 5th RCOG Study Group March 1985*, 149–159. (Monograph).

SINGER, A. 1985. Treatment of cervical cancer. *Brit. J. Hosp. Med.*, vol. 35, no. 3, 178.

SINGER, A. 1985. How much is a life worth saving: the cervix cancer dilemma. *Times Health Supplement*, vol. 2, no. 2, 5.

SINGER, A. 1986. Management of cervical cancer in young women. *I.P.P.F. Bull.*, vol. 20, no. 3, 1.

SINGER, A. 1986. The importance of HPV infections in the male and female genital tract and their relationship to cervical neoplasia. In *Viral Aetiology of Cervical Cancer*, 311–319. R. Peto, H. Hausen (editors). (Cold Springs Harbour: Cold Springs Laboratory Press).

SINGER, A. (with Campion, M.), 1985. Human Papilloma virus. *Brit. J. Hosp. Med.*, vol. 34, no. 8, 142.

SINGER, A. (with McCance, D., Campion, M.) 1985. Prevalence of human Papillomavirus DNA types in cervical neoplasia. *Brit. J. Obstet. Gynaeco.*, vol. 987, 1101–1105.

SINGER, A. (with Tay, S.), 1986. Smoking and cervical neoplasia: a serious public health problem. *J. Obstet. Gynaecol.*, vol. 6, suppl. 2, S89–S90.

SINGER, A., WALKER, P. (with Campion, M., McCance, D.), 1985. Human Papillomavirus types 6 and 16 in multifocal intraepithelial neoplasia of the female lower genital tract. *Brit. J. Obstet. Gynaecol.*, vol. 985, 1093–1100.

SINGER, A., WALKER, P. (and others) 1985. Comparison of prevalence of human Papillomavirus antigen in biopsies from women with cervical intraepithelial neoplasia. *J. Clin. Pathol.*, vol. 38, 855–857.

STEELE, S. J. 1985. Gynaecology, Obstetrics and the Neonate (1st edition). R. N. Hardy, M. Hobsley, K. B. Saunders, J. T. Fitzsimons (editors). (London: Edward Arnold).

STEWART, A. (with Hungerford, J., Hope, P.) 1986. Ocular sequelae of preterm birth and their relation to ultrasound evidence of cerebral damage. *Brit. J. Ophth.*, vol. 70, 463–468.

STEWART, A. (and others) 1985. Increased periventricular echodensities in very preterm infants and prediction of early neurodevelopmental outcome. *Ped. Res.*, vol. 19, 1084 (abstract).

WARD, R. H. T. (with Canning, J. F., Stacey, T. E., Boyd, R. D. H.), 1986. Radioiodide transfer across sheep placenta. *Am. J. Physiol.*, vol. 250, R112–119.

WARD, R. H. T. (and others), 1985. First trimester prenatal diagnosis and detection of carriers of haemophilia A using the linked DNA probe DX13. *Brit. Med. J.*, vol. 291, 765–769.

WARD, R. H. T., MODELL, B., KANAKPONGSUKDI, S., PETROU, M. (with Grudzinskas, J. G., Bolton, A. E., Chard, T.), 1985. Fetoplacental products as a

prognostic guide following chorionic villi sampling. In *First Trimester Fetal Diagnosis*, 74–77. M. Fraccaro (editor). (Berlin: Springer-Verlag).

WARD, R. H. T., MODELL, N., KANAKPONGSUKDI, S., PETROU, M., KNOTT, P. (with Grudzinskas, J. G., Chard, T.) 1986. Fetomaternal haemorrhage following chorionic villus sampling. In *Proc. 24th British Congress of Obstetrics and Gynaecology, Cardiff.* Abstr. 125.

WARD, R. H. T., MODELL, B., PETROU, M. 1986. Transabdominal chorionic villus sampling. *Lancet I,* 440. (Letter).

WARD, R. H. T., MODELL, B., PETROU, M., KANAKPONGSUKDI, S. (with Penketh, R.) 1985. Chorionic villi sampling in a high-risk population using the portex cannula. In *First Trimester Fetal Diagnosis*, 19–24. M. Fraccaro (editor). (Berlin: Springer-Verlag).

PAEDIATRICS

BREWSTER, F., GARDINER, R. M. (with Baldwin, S. A., Cairns, M. T., Ruggier, R.) 1985. Identification of a D-glucose sensitive cytochalasin B binding component of isolated ovine cerebral microvessels. *J. Physiol,* vol. 357, 75.

CANNING, J. F., STACEY, T. E., BOYD, R. D. H. (with Ward, R. H. T.)1986. Radioiodide transfer across sheep placenta. *Am. J. Physiol.,* vol. 250, R112–R119.

GARDINER, R. M. (with Baldwin, S. A., Cairns, M. T., Ruggier, R.) 1985. A D-glucose-sensitive cytochalasin B binding component of cerebral microvessels. *J. Neurochem.* vol. 46, no. 2, 650–652.

GARDINER, R. M. (and others) 1985. Measurement of brain histidine in vivo by ^{1}H-NMR spectroscopy in the mutant histidinaemic mouse. *J. Physiol.*, vol. 369, 65.

GARDINER, R. M. (and others), 1986. Neurometabolic effects of an inborn error of amino acid metabolism demonstrated in vivo by ^{1}H NMR. *Mag. Res. Med.,* vol. 3, 150–156.

HAMILTON, P. A., HOPE, P. L., WYATT, J. S., REYNOLDS, E. O. R. (with Cady, E. B., Chu, A. C. M., Delpy, D. T.) 1985. Deranged energy metabolism in the brain of newborn infants with increased cerebral echodensities. *Ped. Res.,* vol. 19, 1078.

HAMILTON, P. A., WHITEHEAD, M. D., REYNOLDS, E. O. R. 1985. Underestimation of oxygen tension by transcutaneous electrode with increasing age of infants. *Archs Dis. Childh,* vol. 60, 1162–1165.

HAMILTON, P. A., WYATT, J. S., HOPE, P. L., REYNOLDS, E. O. R. (with Cady, E. B., Delpy, D. T.), 1986. Impaired energy metabolism in brains of newborn infants with increased cerebral echodensities. *Lancet,* ii, 1242–1246.

OLVER, R. E., RAMSDEN, C. A., STRANG, L. B., WALTERS, D. V. 1986. The role of amiloride blockable sodium transport in the adrenaline induced reabsorption of lung liquid. *J. Physiol.*, vol. 376, 321–340.

OLVER, R. E., ROBINSON, E. J. 1986. Sodium and chloride transport by the tracheal epithelium of fetal, new-born and adult sheep. *J. Physiol,* vol. 375, 377–390.

PETROU, M., MODELL, B. (with Kanokpongsukdi, S., Wards, R. H. T., Fairweather, D. V. I.), 1985. Diagnostic fetal blood sampling for the haemoglobinopathies – 10-year experience. *Europ. J. Obstet. Gynec. reprod. Biol.,* vol. 20, 25–41.

PETROU, M., MODELL, B. (and others), 1986. Meiotic recombination between two polymorphic restriction sites within the B globin gene cluster. *J. Med. Genetics,* vol. 23, 14–18.

REYNOLDS, O. 1985. Magnetic resonance spectroscopy of the brain. *Ped. Res,* vol. 19, 1070–1071.

REYNOLDS, E. O. R., HOPE, P. L., WHITEHEAD, M. D. 1985. Muscle relaxation and periventricular haemorrhage. *New Engl. J. Med.,* vol. 313, 955–956. (letter).

REYNOLDS, E. O. R., WYATT, J. S. (with Cope, M., Delpy, D. T., Wray, S.) 1986. In vivo determination of changes in cerebral haemoglobin and cytochrome aa_3 oxygenation in rats by near infrared transmission spectrophotometry. In *Proc. of the Physiological Society Cambridge Meeting, Cambridge, July 1986,* 15P.

SMELLIE, J. M. 1986. Urinary tract infection, vesicoureteric reflux, and renal scarring. *Seminars in Urology,* vol. 4, 82–85.

SMELLIE, J. M. (with Normand, I. C. S.), 1985. Management of childhood urinary tract infection. In *Textbook of Genito-Urinary Surgery,* no. 44, 496–504. H. N. Whitfield, W. F. Hendry (editors). (Edinburgh: Churchill Livingstone).

SMELLIE, J. M. (with Normand, I. C. S.) 1985. Urinary infections in children 1985. *Postgrad. Med. J.,* vol. 61, 895–905.

SMELLIE, J. M. (and others), 1985. International system of radiographic grading of the vesicoureteric reflux international reflux study in children. *Paed. Radiology,* vol. 15, 105–110.

SMELLIE, J. M., PRESCOD, N. 1986. Natural history of overt urinary infection in childhood. In *Microbial Diseases in Nephrology,* vol. 15, 243–255. A. W. Asscher, W. Brumfitt (editors). (Chichester: John Wiley and Sons).

SMELLIE, J. M., PRESCOD, N. (with Ransley, P. G., Normand, I. C. S., Edwards, D.), 1985. The development of new renal scars; a collaborative study. *Brit. Med. J.,* vol. 290, 1957–1960.

STEWART, A. L., HOPE, P. L. (with Hungerford, J.), 1986. Ocular sequelae of preterm birth and their relation to ultrasound evidence of cerebral damage. *Br. J. Ophthal,* vol. 70, 463–468.

STEWART, A. L., HOPE, P. L., HAMILTON, P. A., BAUDIN, J., WYATT, J. S., REYNOLDS, E. O. R. 1985. Increased periventricular echodensities in very preterm infants and prediction of early neurodevelopmental outcome. *Ped. Res,* vol. 19, 1084.

WALTERS, D. V. 1985. The role of B adrenergic agents in the control of surfactant secretion. *Biochem. Soc. Trans,* vol. 13, no. 6, 1089–1090.

WALTERS, D. V., BARBER, A. C. 1984. Human surfactant. In *Perinatal Medicine.* 175–178. J. Clinch, T. Matthews, (editors). (Lancaster: MTP Press Ltd).

PSYCHIATRY

BERKOWITZ, R., LEFF, J. 1986. Treating the home environment of the schizophrenic patients. In *The Psychosomatic Approach: Contempory Practice of Whole-person Care,* M. J. Christie and P. G. Mellett (editors). (Chichester: John Wiley and Sons.).

COGILL, S. R., CAPLAN, H. L. KUMAR, R. and others, 1986. Impact of maternal postnatal depression on cognitive development of young children. *Brit. Med. J.* vol. 292, 1165–1167.

COOKLIN, A. I. 1986. Therapy, the family and others. In *Psychotherapy for Practitioners and Students,* H. Maxwell (editor). (John Wiley and Sons).

FITZPATRICK, R., IKKOS, G., FROST, D. 1985. The recognition of psychological disturbance in a sexually transmitted diseases clinic. *The Int. J. of Social Psychiat.,* vol. 31, 306–314.

FITZPATRICK, R. FROST, D. P., IKKOS, G. 1986. Survey of psychological disturbance in patients attending a sexually transmitted diseases clinic. *Genitourin. Med.*, vol 62, 111–115.

FROST, D. P. 1986. Design of a natural language interface for medical expert systems. *Proc. 1st Alvey Knowledge Based Systems Club, 30–31 Jan. 1986.* Abstract no. 075.

FROST, D. P. A Prototype Natural Language Interface for Expert Systems. *Alvey 86 Conference, Brighton. June 1986.* Poster suppl. 213.

FROST, D. P. (with Fox, J.) 1985. Artificial Intelligence in Primary Care. In *Artificial Intelligence in Medicine,* 137–154. I. De Lotti, and M. Stefanelli (editors). (North Holland: Elsevier).

FROST, D. P. (with Fox, J., Duncan, T.) 1986. Expert Systems in Medicine. In *The Health Services Management Handbook.* (Kluwer.).

GREENBERG, M. P. (with Orrell, M.) 1986. What makes summaries useful to general practitioners? *Bull. Roy. Coll. Psychiat.,* vol. 10, no. 5, 107–109.

GREENBERG, M. P. (with Sensky, T.) 1986. Support groups on oncology units: themes and variations. In *Proc. 15th European Conf: Psychosomatic Research,* J. H. Lacey and D. A. Sturgeon (editors) London, September 1984. (London, Paris: John Libbey). 258–261.

GREENBERG, M. P. (with Szmukler, G. I. and Tantam, D. J. H.) 1986. *Making Sense of Psychiatric Cases.* (Oxford: University Press).

KUMAR, R. 1985. Postnatal depression: aetiology and consequences. In *Psychiatry: the State of the Art.* Vol. 5, L. N. Pichot, (editor). (New York: Plenum Publishing).

KUMAR, R. 1985. Pregnancy, childbirth and mental illness. In *Progress in Obstetrics and Gynaecology.* Vol. 5, J. Stubb (editor). (Edinburgh: Churchill Livingstone).

KUMAR, R. 1986. Depression du post partum. In *Jeunes Parents Psychotiques et Leur Enfants.* G. Garrone, A. Jablensky and J. Manzano (editors). (Paris: Simep S. A., Lyon-Villeurbanne).

KUMAR, R. (with Meltzer, E. S.) 1985. Puerpural mental illness, clinical features and classification: a study of 142 mother-and-baby admissions. *Br. J. Psychiat.,* vol. 147, 647–654.

KUMAR, R. (and others) 1985. Long-term blockade of nicotine cue by chlorisondamine in rats. *Br. J. Pharmacol.,* vol. 85, 245P.

KUMAR, R. (and others) 1986. Characteristics of H -(-)- nicotine binding to rat brain. *Br. J. Pharmacol.,* vol. 88, 297P.

KUMAR, R. (and others) 1986. Admitting mentally ill mothers with their babies into psychiatric hospitals. *Bull. Roy. Coll. Psychiat.,* vol. 10, 169–172.

LEFF, J. 1985. Family treatment of schizophrenia. In *Recent Advances in Clinical Psychiatry,* vol. 5, 23–43. K. Granville-Grossman (editor). (London: Churchill Livingstone).

LEFF, J. 1985. The concept of expressed emotion: new empirical evidence. In *Psychiatry: The State of the Art,* vol. 7. (New York: Plenum).

LEFF, J. 1985. Interaction with families. In *The Long-Term Treatment of Functional Psychoses: Needed Areas of Research,* 241–246. T. Helgason (editor). (Cambridge: University Press).

LEFF, J. 1986. Recent research on relatives' expressed emotion. In *Contemporary Issues in Schizophrenia,* 339–345. A. Kerr and P. Snaith (editors). (London: Gaskell).

LEFF, J. 1986. Planning a community psychiatric service: from theory to practice. In *The Provision of Mental Health Services in Britain: The Way Ahead,* 49–60. G. Wilkinson and H. Freeman (editors). (London: Gaskell).

LEFF, J. 1986. The influence of life events and relatives' expressed emotion in the course of schizophrenia. In *Psychopathology: An Interactional Perspective,* D. Magnusson and A. Ohman (editors). (New York: Academic Press).

LEFF, J. 1986. Die therapeutische beeinflussing der familiaren umgebung schizophrener patienten. In *Bewaltigung der Schizophrenie,* 87–94. W. Boker and H. D. Brenner (editors). (Bern: Huber).

LEFF, J. 1986. The epidemiology of mental illness across cultures. In *Transcultural Psychiatry,* J. Cox (editor). (Beckenham: Croom Helm).

LEFF, J. 1986. Family therapy. In *Handbook of Studies on Schizophrenia, 2. Management and Research,* 101–113. G. D. Burrows, T. R. Norman and G. Rubinstein (editors). (Amsterdam, New York, Oxford, Elseneir).

LEFF, J. 1985. Social factors and maintenance neuroleptics in schizophrenic relapse: An integrative model. *Integrative Psychiat.,* vol. 3, 72–88.

LEFF, J. (with Hirsch, S. R.) 1985. Depression in schizophrenia: crucial issues and further evidence. In *Psychiatry: The State of the Art,* vol. 1, 577–582. P. Pichot, P. Berner, R. Wolfe and K. Thau (editors). (New York, Plenum).

LEFF, J., KUIPERS, L., BERKOWITZ, R., and STURGEON, D. 1985. A controlled trial of social intervention in the families of schizophrenic patients: two year follow-up. *Br. J. Psychiat.,* vol. 146, 594–600.

LEFF, J., TRESS, K. H. 1986. The response of untreated chronic schizophrenics to haloperidol and haloperidol decanoate. *Int. Clin. Psychopharmacol.,* vol. 1 suppl. 1, 27–40.

LOADER, P. 1985. Childhood obesity: the family perspective. *Int. J. Eating Disorders,* vol. 4, no. 2, 211–225.

MILLER, D. 1986. Counselling in AIDS and HTLV-III. In *Proce. of the AIDS Conference: Newcastle-upon-Tyne, February 1986.* (Newcastle: Intercept). 165–174.

MILLER, D. 1986. Comment: HTLV-III – motivating behavioural change. *Brit. J. Sexual Med.,* vol. 13, 168.

MILLER, D. 1986. Psychology, AIDS, ARC and PGL. In *The Management of AIDS Patients,* 131–150. D. Miller, J. Weber and J. Green (editors). (London: Macmillan Press).

MILLER, D. 1986. The worried well. *Ibid.,* 169–174.

MILLER, D. (with Green, J.) 1986. Hospital counselling: structure and training. *Ibid.,* 187–194.

MILLER, D. (with Green, J.) 1985. Psychological support and counselling in acquired immune deficiency syndrome (AIDS). *Genitourin. Med.,* vol. 61, 173–278.

MILLER, D. (with Green, J., McCreaner, A.) 1986. Organising a counselling service for AIDS-related problems. *Genitourin. Med.,* vol. 62, 116–122.

MILLER, D. (with Jeffries, D., Green, J., Harris, J. R. W., Pinching, A. J.) 1986. HTLV-III: Should testing ever be routine? *Brit. Med. J.,* vol. 292, 941–943.

MILLER, D. (with Weber, J., Green, J.) (Editors) 1986. *The Management of AIDS Patients.* (London: Macmillan Press). 208 pp.

NEWMAN, S. P. (and others) 1986. Neurological complications of coronary artery bypass surgery. *Brit. Med. J.,* vol. 193, (6 Sept.), 625.

NEWMAN, S. P., ARCHER, R. (and others) 1985. Ocular dominance, reading and spelling: a re-assessment of a measure associated with specific reading difficulties. *J. Res. in Reading,* vol. 8, 127–138.

NEWMAN, S. P., ARCHER, R. (and others) 1986. Micro-computer based system for the analysis of saccadic eye movements. In *Eye Movements: From Physiology to Cognition,* 658–659. J. K. O'Regan and A. Levy (editors), (North Holland: Elsevier-Schoen.).

NEWMAN, S. P., ARCHER, R. (and others) 1986. Ocular dominance and reading and spelling re-assessed. *Ibid.,* 542–543.

NEWMAN, S. P., JOSEPH, P. (and others) 1986. Intravenous Xe-133 cerebral blood flow studies in the assessment of the cerebral consequences of coronary artery bypass surgery. In *Radioaktiv Isotope in Klinik und Forschung.* Rudolph Hofer and Helman Bergman (editors). (Wien: Verlag H. Egermann).

NEWMAN, S. P., JOSEPH, P. L. A. (and others) 1986. Cerebral consequences of cardiopulmonary bypass. *Lancet,* I, 823–825.

NEWMAN, S. P., LAMB, R. (and others) 1986. Eye movements and sequential tracking: an effect of reading experience. *Perception and Motor Skills,* vol. 63, 431–434.

ROSSER, R. M. (with Kinston, W. J.) 1986. Individual Psychotherapy. In *Essentials of Postgraduate Psychotherapy* (2nd edit.), 701–729. P. Hill, R. Murray and A. Thorley (editors) (London: Grune and Stratton Ltd.).

ROSSER, R. M. (and others) 1986. The Cassel Hospital follow-up study. In *Proc. 15th European Conf: Psychosomatic Research,* J. H. Lacey and D. A. Sturgeon (editors) London, September 1984. (London, Paris: John Libbey). 49–54.

SCAMBLER, G. N. (with Hopkins, A. P.) 1986. Being epileptic: coming to terms with stigma. *Sociology of Health and Illness,* vol. 8, 26–43.

SCAMBLER, G. N. (with Patrick, D. L.), (Editors) 1986. *Sociology as Applied to Medicine* (2nd edition, revised). (London: Baillieve Tindall) 259 pp.

SCAMBLER, G. N. (with Scambler, A. C.) 1985. Menstrual symptoms, attitudes and consulting behaviour. *Soc. Sc. Med.,* vol 20, 1065–1068.

SHOENBERG, P. J. 1986. The relevance of dynamic psychotherapy to the teaching of medical students. *Bull. Ass. of Univ. Teachers of Psychiat.*

STURGEON, D. A. 1986. Outcome variables for medical students who take on psychotherapy patients. In *Proc. 15th European Conf: Psychosomatic Research.* D. Sturgeon and H. Lacey (editors) London, September 1984. (London, Paris: John Libbey). 363–366.

STURGEON, D. A. 1986. The relationship between life events, expressed emotion and relapse in schizophrenia. *Ibid.,* 61–65.

STURGEON, D. A. (with Lacey, J. H.) 1986 (Editors). *Proc. 15th European Conf: Psychosomatic Research. London, September 1984.* (London: John Libbey).

STURGEON, D. A. (and others) 1985. Medical school training in Great Britain, 18–22. Development of students psychotherapy at University College Hospital, 28–34. Problems and methods, 44–49. Differences and similarities between Heidelberg and London, 50–55. In *First Steps in Psychotherapy.* H. Wolff, W. Knauss and W. Brautigam (editors). (Heidelberg: Springer-Verlag).

SURGERY

ATHOW, A. C., LEWIN, M. R., SEWERNIAK, A. T., CLARK, C. G. 1986. Gastric secretory responses to modified sham feeding (MSF) and insulin after vagotomy. *Br. J. Surg.,* vol. 73, 132–135.

BARR, H. (with Cave-Bigley, D. J., Harris, P. L.) 1985. The management of inflammatory abdominal aortic aneurysms. *Journal of the Royal College of Surgeons of Edinburgh*, vol. 30, no. 4, 217–220.

BARR, H., BOWN, S. G., MATHEWSON, K., BOULOS, P. B. 1986. Palliative NdYAG laser therapy for advanced colorectal cancer (abstract). *Br. J. Surg.*, vol. 73, 492.

BOULOS, P. B., COWIN, A. P., KARAMANOLIS, D. G., CLARK, C. G. 1985. Diverticula, Neoplasia or Both? *Annals of Surgery*, vol. 202, 607–609.

BOWKER, T. J., BOWN, S. G. (with others) 1986. Optical transmission of normal and atheromatous arterial wall: a special analysis. *Cardiovascular Research*, vol. 20, 393–397.

BOWKER, T. J., CROSS, F. W., BOWN, S. G. (with others) 1986. Excimer laser angioplasty. Quantitative comparison in vitro of three ultraviolet wavelengths on tissue ablation and haemolysis. *Lasers in Medical Science 1*, vol. 2, 91–99.

BOWKER, T. J., CROSS, F. W., BOWN, S. G. (with others) 1986. Excimer laser angioplasty: quantitative comparison of ArF, KrF and XeF energy on normal and atheromatous tissue. *J. Am. Coll. Cardio.*, vol. 7, 208A.

BOWN, S. G. 1986. Laser Endoscopy. *British Medical Bull.*, vol. 42, no. 3 (July), 307–313.

BOWN, S. G. 1986. Lasers in Gastroenterology. *Gastrointestinal Futures*, vol. 1, no. 1 (January), 11–13.

BOWN, S. G. 1986. YAG laser in general surgery. In *Gynaecological Laser Surgery*, 283–288. F. Sharp and J. A. Jordan (editors). (Ithaca, New York: Perinatology Press).

BOWN, S. G., BARR, H., MATHEWSON, K., HAWES, R., SWAIN, C. P., CLARK, C. G., BOULOS, P. B. 1986. Endoscopic treatment of inoperable colorectal cancers with the Nd YAG laser. *Gut*, vol. 27, A618.

BOWN, S. G. TRALAU, C. J., COLERIDGE SMITH, P. D., AKDEMIR, D. (with Wieman, T. J.) 1986. Photodynamic therapy with porphyrin and phthalocyanine sensitisation: quantitative studies in normal rat liver. *British Journal of Cancer*, vol. 54, 43–52.

CLARK, C. G. 1986. Implantable vascular access devices in the treatment of colorectal liver metastases. *Br. J. Surg.*, vol. 73, 419–421.

CLARK, C. G. 1986. Random thoughts on surgical training. *Darlington Postgraduate J.* vol. 5, 57–60.

CLARK, C. G., BOULOS, P. B. (with Fresini, A., Araujo, J. G. C.) 1986. Proximal gastric vagotomy or truncal vagotomy and drainage for chronic duodenal ulcer. *Br. J. Surg.*, vol. 73, 298–300.

CLARK, C. G., CHOWCAT, N. L., LEWIN, M. R., GILBERT, J. M., GELISTER, J. S. K., BOULOS, P. B. 1986. Surgery for peptic ulceration associated with hypergastrinaemia. *Br. J. Surg.* 73: 248–252.

COOPER, M., HOLT, S. E., WYLLIE, J. H. (with Coughlan, J. R.) 1986. A flexible microcomputer system for in vitro superfusion experiments. *B. J. Pharmacol.*, vol. 87, 201P.

CROSS, F. W. 1986. Laser safety – the medical laser. *Occupational Health*, vol. 38, 13–15.

CROSS, F. W. 1986. Lasers take a shine to medicine. *New Scientist*, vol. 109, 38–42.

CROSS, F. W., BOWKER, T. J., BOWN, S. G. (with others) 1985. Ultraviolet laser photoablation of normal and atheromatous human aortic wall in vitro – a comparative study at three wavelengths. *Br. J. Surg.*, vol. 73, 322.

CROSS, F. W. BOWKER, T. J., BOWN, S. G., CLARK, C. G. 1986. In vivo changes in the dog aorta following exposure to pulsed Nd YAG laser radiation. *Br. J. Surg.*, vol. 73, 494.

CROSS, F. W., BOWKER, T. J., BOWN, S. G., CLARK, C. G. (with others) 1986. Long term changes in the dog aorta following exposure to pulsed Nd YAG laser radiation. *Lasers Surg. Med.*, vol. 6, 180.

CROSS, F. W. 3 March 1986. BBC Radio Oxford. Open Air.

GELISTER, J. S. K. (with James, W. E., Fox, J. A.) 1986. Preliminary experience with difibrotide in lower limb ischaemia. *Haemostasis*, vol. 16, 63–66.

GELISTER, J. S. K. (with others) 1986. Malignant fibrous histiocytoma in thoracic surgical practice. *J. Thoracic Cardiovascular Surgery*, vol. 91, 234–237.

GELISTER, J. S. K., BOULOS, P. B. (with Mahmoud, M., Gaffney, P. J.) 1986. Proteinase-like peptidase activities in malignant and non-malignant gastric tissue (letter). *Br. J. Surg.*, vol. 73. 84–85.

GELISTER, J. S. K., BOULOS, P. B. (with Mahmoud, M., Gaffney, P. J.) 1986. Plasminogen activators and the adenoma-carcinoma sequence in human colorectal neoplasia. *Fibrinolysis*, (August suppl.) 132.

GELISTER, J. S. K., ISHAQ, S., BOULOS, P. B. (with Mahmoud, M., Bobrow, L., Gaffney, P. J.) 1986. An immunoperoxidase and zymographic study of plasminogen activators in colorectal neoplasia. *Ibid.*, 130.

GELISTER, J. S. K., ISHAQ, S., BOULOS, P. B. (with Mahmoud, M., Gaffney, P. J.) 1986. Tissue plasminogen activator and urokinase in human colorectal cancer. *Br. J. Cancer*, vol. 54, 150–151.

GELISTER, J. S. K., LEWIN, M. R., BOULOS, P. B. 1986. Tumour angiogenesis (letter). *Ann. Roy. Coll. Surg. Eng.*, vol. 68, 17.

GELISTER, J. S. K., LEWIN, M. R., SAVAGE, F., BOULOS, P. B. (with Mahmoud, M., Gaffney, P. J.) 1986. Enhanced plasminogen activator (PA) activity in experimental colon neoplasia. *Br. J. Cancer*, vol. 54, 151.

GELISTER, J. S. K., LEWIN M. R., SAVAGE, F., BOULOS, P. B. (with Mahmoud, M., Garcia-Frade, J., Gaffney, P. J.) 1986. Experimental colon polyps produce elevated levels of urokinase (UK) and tissue plasminogen activator (TPA). *Eur. Surg. Res.*, vol. 18 (suppl. 1), 25A.

GELISTER, J. S. K., LEWIN, M. R., SAVAGE, F., BARTON, T., BOULOS, P. B. (with Mahmoud, M., Garcia-Frade, J., Gaffney, P. J.) 1986. Tissue plasminogen activator and urokinase production in experimental colon neoplasia. *Fibrinolysis*, (August suppl.) 129.

GELISTER, J. S. K., LEWIN, M. R., SAYEGH, G., BARTON, T., BOULOS, P. B. 1986. Failure of tranexamic acid to protect against the development of experimental colon neoplasia – a preliminary report. *Ibid.*, 277.

HARRISON, R. A., CLARK, C. G. 1986. Conservative Surgery in Crohn Disease. In *Surgery Annual 1986*, 29–40. L. M. Nyhus (editor). (Norwalk: Appleton-Century-Crofts).

HARRISON, R. A., CLARK, C. G. 1986. Vertical banded gastroplasty (letter). *Ann. Roy. Coll. Surg. Eng.*, vol. 68, 175.

HARRISON, R. A., McDERMOTT, E. W. M., 1986. New instrument to tunnel cuffed central venous catheters. *Journal of Parenteral Therapy*, vol. 7, 45–46.

HOLT, S. E., COOPER, M., WYLLIE, J. H. 1985. Evidence for purinergic transmission in mouse bladder and for modulation of responses to electrical stimulation by 5-hydroxytryptamine. *Europ. J. Pharmacol.*, vol. 116, 105–111.

JAYARAJ, A. P. 1985. Cysteamine induced duodenal ulceration in rats, a modification to reduce mortality. *Digestive Diseases and Science,* vol. 30, 382.

JAYARAJ, A. P. (with Kitler, M. E.) 1985. A method for demonstrating mast cell and microvascular pattern in subserosa of rat stomachs. *Ibid.,* 382.

JAYARAJ, A. P., TOVEY, F. I. (with Rees, K. R., White, J. S.) 1986. A molecular basis of peptic ulceration due to diet. *Br. J. Expt. Path.,* vol. 67, 149–155.

JAYARAJ, A. P., TOVEY, F. I., CLARK, C. G. (with Riley, P. A.) 1985. Quantitative changes in mast cells and microvascular pattern associated with dietary gastric ulceration in rats. *Microcirculation, Endothelium and Lymphatics,* vol. 2, 643–655.

LEWIN, M. R. 1986. Effect of a chemically defined diet in liquid form on colon carcinogenesis in rats. *J. Ntnl. Canc. Inst.,* vol. 77, 325 (letter).

LEWIN, M. R., CHOWCAT, N. L., JAYARAJ, A. P., BOULOS, P. B. 1986. Collagenase inhibition in colonic mucosa by proteinase inhibitors. *Br. J. Expt. Path.,* vol. 67, 523–526.

MATTHEWSON, K., BARTON, T., LEWIN, M. R., BROWN, S. G. (with O'Sullivan, J. P., Northfield, T. C.) 1986. Low powered Nd YAG laser treatment of colonic tumours. *Gut.* vol. 27, A600.

McDERMOTT, E., HARRISON, R. A., BELSHAM, P. A., CLARK, GILL, BOULOS, P. B., CLARK, C. G. 1986. Vascular permeability to albumin in patients with gastrointestinal malignancy. *European Journal of Surgical Oncology,* vol. II, 308.

McNICHOLAS, T. A. (with others) 1986. The effects of extracorporeal shock wave lithotripsy on urological prosthesis and endoprostheses. *Urol. Res.,* vol. 14, 1–5.

McNICHOLAS, T. A., CROSS, F. W., BOWN, S. G., CLARK, C. G. (with Flemming, A. F. S., Colles, M. J., Wickham, J. E. A.) 1986. Laser assisted vasovasostomy. *European Journal for Surgical Research,* vol. 18, (suppl 1), 84–85.

McNICHOLAS, T. A. 25 February 1986. Radio 4. Medicine Now.

PUGH, S., LEWIN, M. R., WILLIAMS, S., BARTON, T., CLARK, C. G. 1985. Baclofen (PCP-GABA) as a stimulant of gastric acid secretion in man. *IRCS Med. Sci.,* vol. 13, 1082–1083.

PUGH, S., WILLIAMS, S., LEWIN, M. R., BARTON, T. (with Ishaque, M., Bose, K., Bardan, K.) 1985. Is persistent duodenal prostaglandin E2 deficiency the cause of relapse in D.U? *Gut,* vol. 26, A1150.

PUGH, S., WILLIAMS, S., LEWIN, M. R., BARTON, T., CLARK, G. C. (with Ishaque, M., Bardhan, K. D.) 1986. Prostaglandin E2 (PGE2) defieicnecy in acute gastric ulcer is not affected by treatment with H2 receptor antagonists. *Br. J. Surg.,* vol. 73, A495.

SANDEMAN, D. R. (with Cummins, B.) 1986. The provenance of extradural haematomas. *Brit. Med. J.,* vol. 292, 522–523.

SWAIN, C. P., BOWN, S. G. (with Kirkham, J. S., Salmon, P. R., Northfield, T. C.) 1986. Controlled trial of Nd YAG laser photocoagulation in bleeding peptic ulcers. *Lancet* I, 8490, 1113–1116.

SWAIN, C. P., BOWN, S. G. (with Kirkham, J. S., Salmon, P. R., Northfield, T. C.) 1986. Controlled trial of Nd YAG laser photocoagulation in bleeding peptic ulcers. *Lancet* I 8490, 1113–1116.

SWAIN, C. P., LEWIN, M. R. (with Brown G., Roe, S. M., Mills, T. N.) 1986. Endoscopic stapling in the oesophagus and stomach. *Gut.,* vol. 27, A599.

YIU, C. Y., BAKER, L., BOULOS, P. B., CLARAK, C. G. 1985. A comparison of low residue diet and purgation on different faecal occult blood tests. *Gut.*, vol. 26, A1128.

YIU, C. Y., BAKER, L., BOULOS, P. B., CLARK, C. G. (with Ward, M., Summerhayes, I., Coombes, R. C.) 1985. Monoclonal antibodies reacting with colorectal tumours. *Anticancer Research,* vol. 5, 575.

WYLLIE, J. H., EDWARDS, D. A. W. 1985. A quantitative assessment of results with the Angelchik prosthesis. *Ann. roy. Coll. Surg. Engl.*, vol. 67, 216–221.

COMPUTER CENTRE

SAMET, P. A. 1985. A new look at an old method. *Bull. IMA,* vol. 21, 132.

SAMET, P. A. 1986. A computer service using linked minis. *Hong Kong Computer J.*, vol. 2, no. 4, 34–41.

LIBRARY STAFF

SOAR, GEOFFREY, 1985. Edwin Morgan, 593–594. Tom Pickard, 661–662. In *Contempoary Poets* (4th edit.). James Vinson, D. L. Kirkpatrick (editors). (London: St James Press).

TEARLE, BARBARA 1986. Legal bibliographies and reference books. In *Information Sources in Law,* 314–336. R. G. Logan (editor). (London: Butterworths).

TEARLE, BARBARA 1986. The publications of Tony Honoré 1950–1985. In *The Legal Mind: essays for Tony Honoré*, 307–312. N. MacCormick, P. Birks (editors). (Oxford: Clarendon Press).

APPENDIX I

NUMBERS OF STUDENTS 1985-86*

	Under-graduate		*Post-graduate*		*Total*	
Faculty of Arts	1,282	(43)	370	(155)	1,652	(198)
Department of Economics	317	(0)	25	(9)	342	(9)
Slade School of Fine Art	94	(0)	85	(0)	179	(0)
	1,693	(43)	480	(164)	2,173	(207)
Faculty of Science	1,635	(6)	†681	(177)	2,316	(183)
Faculty of Medical Sciences‡	292	(2)	0	(0)	292	(2)
Faculty of Engineering	462	(1)	295	(84)	757	(85)
Faculty of Laws	302	(12)	169	(56)	471	(68)
Faculty of Environmental Studies	161	(3)	270	(68)	431	(71)
Faculty of Clinical Sciences	504	(2)	53	(40)	557	(42)
	5,049	(69)	§1,948	(589)	6,997	(658)

* As at 31 December 1985.

† This figure includes 92 full-time and 45 part-time students working in the College Faculty of Medical Sciences who were registered in the University Faculty of Science.

‡ Non-clinical Medical and Dental students only (excluding Intercalated BSc students included in Science).

§ Of this number 1,137 full-time students and 564 part-time students were registered for higher degrees of the University of London; the remainder were working for higher diplomas of the University or of the College, or for the higher degrees of other universities, or were engaged in research work, or attending postgraduate lecture courses.

The figures in brackets indicate the number of part-time students included in the total under each head.

APPENDIX II

UNIVERSITY FIRST DEGREE AND DIPLOMA AWARDS

1 OCTOBER 1985 — 30 SEPTEMBER 1986

FACULTY OF ARTS

BA Degree	*1st Class Honours*	*2nd Class Honours Upper Div.*	*2nd Class Honours Lower Div.*	*3rd Class Honours*	*Pass*	*Total*
Ancient World	—	3	5	—	—	8
Anthropology & Geography	—	3	3	—	—	6
Classical Archaeology	—	—	1	—	—	1
Classics	4	5	4	1	—	14
English	5	20	17	1	—	43
Fine Art	4	12	3	2	1	21
French	2	12	10	2	—	26
Geography	3	21	25	4	—	53
German	1	4	5	1	—	11
History	7	20	18	—	—	45
History of Art	1	8	5	—	—	14
Italian	—	—	6	1	—	7
Latin	—	1	4	—	—	5
Linguistics	—	3	1	1	1	6
Medieval Archaeology	1	2	7	1	—	11
Modern Iberian & Latin American Regional Studies	—	6	3	—	—	9
Philosophy	2	14	6	—	—	22
Scandinavian Studies	—	1	3	1	—	5
Spanish with French	—	2	1	—	—	3
Ancient History & Egyptology	—	1	1	—	—	2
Ancient History & Social Anthropology	1	1	2	—	—	4
Dutch & German	—	—	1	—	—	1
English & German	1	—	1	—	—	2
English & History of Art	—	1	—	—	—	1
French & History of Art	—	3	1	1	—	5
German & History of Art	—	1	—	—	—	1
German & Linguistics	—	—	1	—	—	1
German & Scandinavian Studies	—	2	6	—	—	8
History & History of Art	—	—	1	—	—	1
Italian & History of Art	1	1	2	—	—	4
Philosophy & Economics	—	1	1	—	—	2
Philosophy & History of Art	—	—	1	—	—	1
Philosophy & Linguistics	1	—	—	—	—	1
	34	148	145	16	1	344

BA Degree (Aegrotat)	*Pass*	*Total*
	—	—

FACULTY OF LAWS

LLB Degree	*1st Class Honours*	*2nd Class Honours Upper Div.*	*2nd Class Honours Lower Div.*	*3rd Class Honours*	*Pass*	*Total*
	5	42	40	1	—	88

FACULTY OF MEDICINE

Basic Medical Sciences and Pharmacology Examination: 117 students passed.
Second Examination for Dental Degrees: 43 students passed.
MB, BS Degrees: 107 students passed, including 6 with distinctions.
BDS Degree: 44 students passed, including 8 with honours.

FACULTY OF SCIENCE

BSc Degree	*1st Class Honours*	*2nd Class Honours Upper Div.*	*2nd Class Honours Lower Div.*	*3rd Class Honours*	*Pass*	*Total*
Anthropology	3	17	4	2	—	26
Anthropology & Geography	—	2	2	—	—	4
Applied Physics	—	—	5	6	—	11
Architecture, Planning, Building and Environmental Studies	5	14	17	4	—	40
Astronomy	2	1	4	5	—	12
Astronomy & Physics	3	3	8	1	1	16
Biochemistry	2	9	4	—	—	15
Botany	1	1	1	—	—	3
Chemical Physics	2	—	2	—	—	4
Chemistry	5	8	10	7	2	32
Computer Science	4	7	10	1	3	25
Computer Science with Electronic Engineering	1	1	2	—	—	4
Ecology	—	1	2	—	—	3
Exploration Geophysics	—	3	2	—	—	5
Genetics	—	2	3	—	—	5
Geography	2	7	10	3	—	22
Geology	3	10	9	1	—	23
Human Sciences	—	4	6	—	—	10
Human Sciences with Neuroscience	—	1	—	—	—	1
Mathematics	2	11	8	7	1	29
Mathematics & Astronomy	—	2	3	4	—	9
Mathematics & Physics	—	1	1	1	—	3
Medicinal Chemistry	4	—	2	1	—	7
Microbiology	1	8	5	3	—	17
Microbiology & Genetics	—	5	2	1	—	8
Pharmacology	1	8	—	—	—	9
Physics	4	2	3	2	2	13
Physiology	—	3	4	—	—	7
Psychology	3	21	32	—	—	56
Speech Sciences	4	17	23	3	—	47
Statistics	—	—	2	3	1	6
Statistics & Computer Science	—	1	—	—	—	1
Statistics, Computing, Operational Research and Economics	—	1	2	1	—	4
Zoology	2	9	7	1	—	19
Zoology & Genetics	—	—	—	1	—	1
	54	180	194	58	10	497

BSc (Intercalated) Degree	*1st Class Honours*	*2nd Class Honours Upper Div.*	*2nd Class Honours Lower Div.*	*3rd Class Honours*	*Pass*	*Total*
Anatomy with Basic Medical Sciences	2	3	1	—	—	6
Basic Medical Sciences with Anatomy	—	1	—	—	—	1
Anthropology & Basic Medical Sciences	—	—	1	—	—	1
Biochemistry with Basic Medical Sciences	—	—	—	—	—	—
Biomedical Sciences	—	3	—	—	—	3
Genetics & Basic Medical Sciences	—	6	—	—	—	6
History of Medicine & Basic Medical Sciences	2	6	2	1	—	11
Microbiology & Basic Medical Sciences	—	1	—	—	—	1
Pharmacology with Basic Medical Sciences	2	8	1	—	—	11
Physiology with Basic Medical Sciences	2	5	1	—	—	8
Psychology & Basic Medical Sciences	2	12	8	—	—	22
Sociology as applied to Medicine & Basic Medical Sciences	1	4	—	—	—	5
Zoology & Basic Medical Sciences	—	4	—	—	—	4
	11	53	14	1	—	79

FACULTY OF ENGINEERING

BSc (Engineering) Degree	*1st Class Honours*	*2nd Class Honours Upper Div.*	*2nd Class Honours Lower Div.*	*3rd Class Honours*	*Pass*	*Total*
Biochemical Engineering	1	4	5	3	—	13
Chemical Engineering	3	6	7	4	—	23
Civil Engineering	3	10	9	10	3	35
Electronic & Electrical Engineering	3	8	11	1	3	26
Electronic Engineering with Computer Science	4	5	4	1	—	14
Mechanical Engineering	5	6	6	3	4	24
Naval Architecture	4	—	1	4	1	10
	23	39	43	26	14	145

BSc (Economics) Degree	*1st Class Honours*	*2nd Class Honours Upper Div.*	*2nd Class Honours Lower Div.*	*3rd Class Honours*	*Pass*	*Total*
Economics	3	28	28	6	1	66
Economics & Economic History	—	5	2	1	—	8
Economics & Geography	—	5	5	1	—	11
Economics & Statistics	1	—	3	2	—	6
	4	38	38	10	1	91

APPENDIX III

UNIVERSITY HIGHER DEGREE AND HIGHER DIPLOMA AWARDS

1 OCTOBER 1985 — 30 SEPTEMBER 1986

FACULTY OF ARTS

PhD

Bartlett School of Architecture and Planning: Linda M. McDowell, Alhaji E. Musah. *French Language and Literature:* Margaret K. Atack, Andrew N. Leak, Trista M. Selous. *German:* Harriet J. Anderson, Gary R. Massey. *Greek:* Azza S. Aly Hassan Morsy, Hariklia G. Ioannidou, Jennifer R. March. *History:* Estela G. Jimenez-Codinach, Alexander Uchitel. *History of Art:* Joan W. M. Hichberger, Lynda D. Nead. *Italian:* Mark D. Brunswick. *School of Library, Archive and Information Studies:* Radia Adam Mohammed, Aida Hafez, Carol J. Hoffman. *Philosophy:* Jocelyn S. Almond, Mark Leon, Donald M. Peterson, Keith H. Seddon. *Phonetics and Linguistics:* Philomena E. Ejele, Barbara M. Gorayska, Valerie L. Hazan, Alfred D. Mtenje, John R. Roberts, Titilayo O. Ufomata. *Scandinavian Studies:* Sarah G. Death. (29)

MPhil

Bartlett School of Architecture and Planning: Eno Amooquaye, George Antonopoulos, Michael J. Carragher, David A. Chippendale, Chung Si Ying, Julie A. Cross, Gary J. Forster, Nicholas D. James, Alice E. Jefferis, John S. McCormick, Desdemona Reed, Teresa I. Ryszkowska, Nicola J. Stalbow. *English Language and Literature:* Marion J. Cohen. *French Language and Literature:* Christopher J. Hickey. *Philosophy:* Philip G. Stiles. (16)

MA

Anglo-American Literary Relations: Lucy A. N. Astor, Anne M. Camerota, Judith M. Cox-Johnson, Harry W. I. Cummins, Elizabeth A. Halpern, Elyse Schapira, Martin D. Stannard, Caroline E. Young. *Archaeology:* Jane C. Allen, Paris Zographos. *Archive Studies:* Samuel K. Agyei, Timothy C. Harris, Mohd J. Lebai Din, David A. Leitch*, Sarah J. Lewin*, Allyson Whyte. *Area Studies:* Robert G. Fletcher, John W. Gunn. *Classics:* Joy L. Graham. *Dutch:* Johanna A. Bokkerink. *English Language (Modern):* Sebastiaan H. L. M. Aarts, Nicholas J. F. Jones. *German:* Michael J. Jack, Mary E. B. Shinnors. *Library and Information Studies:* Ngozi G. Agina, Penelope J. Allen-Smith, Richard J. Baldwin, Anne Barrett, Michael W. Chambers, Hedy Cohen, Susan Dawes, Hazelyn E. Devonish, Robin W. Doust, Carolyn G. Downs, Carmel M. Egan, Jerome P. Farrell, Julie Gibson, Moira A. Goff, Thambawitage D. D. Gunasekara, Selladurai Gunasingam, Norma N. M. Hazboun, Joyce E. Headford, Katharine J. C. Hooper*, Trevor Jamison, Lina Khamis, Taoufik Lamari, Aref Makooi, Flossie Matenje, Deborah J. H. Matthews, Michael A. Maumbe, Gerard J. McFall*, Nuala T. I. McKevitt*, Rita B. Morgan, Matseliso Moshoeshoe, Fiona J. Nesbitt, Paul Pelowski, Musarrat Rana, Dikeledi J. Setlogelo, Sarah E. Shield, Steven W. Simmonite, Katherine Van de Vate, Said Zerrouk. *Overseas Archive Studies:* Charles B. Malunga, Hamadi H. Omari. *Phonetics:* Sandra M. Adams, Hu Yun-Jiang. *Romance Languages and Literatures:* Joannem A. Bell. *Scandinavian Studies:* Victoria J. L. Lywood-Last. (68)

University Postgraduate Diplomas: Fine Art: 37 Linguistics: 7

*Awarded Mark of Distinction

FACULTY OF ECONOMICS

PhD *Laws:* Edward J. Johnson. (1)

MSc *Urban Development Planning:* Cheong K. Hean, Nelson Chu Nai Fun, Karin S. De Poortere Rivera, Barbara N. Ekiko, Maria T. Franchini, Garry D. Gray, Alexander Kamenyi, Elizabeth D. C. Maldonado Urrutia, Louis-Francois Monet, Godwin A. Nuhu, Maria dRMdR Quandt, Hala Raed, Edgar A. Ramirez Tua, Shahid I. Rana, Adrian S. C. Richardson, Eric W. Richardson*, Ameneh Saifalsadaty, Vemula Sathyanarayan, Aezick A. A. A. Seray-Wurie, Setimela Moshe Setimela Kermin R. Sidhwa, Beng M. Sim, Teh Lai Yip, Maria C. Vejarano Alvarado. (24)

*Awarded Mark of Distinction

FACULTY OF LAWS

PhD *Laws:* Kwaku Anyemedu, Cosmas N. Cheka.

LLM Rohani Abu Bakar Al Haj, Olajide Adeyemi, Oluwabunmi E. M. Alemoru, Tamalia Alisjahbana, Asterios Anastassiadis, Abisola A. Andu, Norman M. Arendse, Saneh L. Arora, George W. Ash, Zihni B. O. Bilgehan, Jannet E. K. Bodylawson, Mark P. Brealey, Nicola M. Bustin, Fernado Calbacho Losada, Ricky Chan Ming Tak, Anisah Che Ngah, David K. Cheng, Francis Y. C. Chiew, Choo Chui Lai, Antonio Creus Carreras, Elizabeth A. Cumming, Mark J. Davis*, Carlton J. Dill, Siobhan M. Duff, Janet M. Fasan, Tijani B. Folawiyo, Daryl G. Francois, Mark S. Green, Betty S. S. Gyasi-Twum, Barry A. Hafiz, Philippa M. Haggar, Paul W. Handford, Merriol Haselden, John D. Houghton, Robert J. Hunter, Eliana C. Jacovidou, Peter N. Jennings, Nesaratnam S. Jeremiah, Christine S. Johnston, John G. Jones, Elvina Kanavaki, Savvas K. Karatsis, Nicholas Kremmydas, Lakshmi A. Kuma, Alex Lau Kun Luen, Andrew A. Leir, Peter T. S. Li, Martin C. K. Liao, Simon D. Lillington, Lim Jit Poh, Lim Tow Gim, Kim E. Lunn, Mary C. P. McHugh, Amjad R. Malik, Ahsan H. Mashhadi, Myrtle Mbatha, Selengia N. L. Mlawi, Mohomed J. Muljee, Benedict Mutyaba, Isabel J. S. Napper, Shepard Nzombe, Kerstin H. M. Ohlner, Akinlolu Osinbajo, Adebayo A. Oyagbola, John Papapetros, Tulia M. Pardo Rodriguez, Roger D. Parker, Jayesh R. Patel, Clara Pau Yee-Fan, Jayasingam Poopalasingam, Rasamalar Poopalasingam, Prashant S. Pratap, Quentin A. Purdy, Nicola Reasbeck, Raphael M. Schiff, Belinda A. Schofield, Muhammad Seleem, Carupiah Selvarajah, Sunip K. Sen, Robert H. Shapiro, Siew Bee Tan, Jurgen Sparr, Phanos Strovolides, Tan Gee Tuan, Nikolaos Trataros, John Tripidakis, Caroline A. Walford, George S. S. Wei*, John M. Weldon, Jonathan P. M. Wright, Jun Yamada, Eugenia Zalachori. (92)

University Postgraduate Diplomas: International Law: 3 Shipping Law: 9
*Awarded Mark of Distinction

DSc John E. Jayne, Charon R. Ganellin. (2)

PhD *Anatomy and Embryology:* Peter G. C. Bannerman, Lorna J. Breckenridge, James G. Donat, Susan M. Farmery, Sarah C. Guthrie, Stephen A. Reid, Alison M. Taylor. *Anthropology:* Sally A. Hill, Clive R. Mira-Smith, Ines A. Smyth. *Bartlett School of Architecture and Planning:* Brian D. Finnimore, Ana L. T. Seroa Da Motta. *Biochemistry:* Caroline A. Austin, Diane J. Cousens, Adelaida Crespo Armas, Jonathan Ham, Michele S. Hill-Perkins, Balazs J. Kovacs, Thomas V. M. McCarthy, Nita Patel, Stephen J Taylor. *Botany and Microbiology:* Ian J. Bull, Abbas A. I. El-Ghamery, Hafeez I. T. Khawaja, Jane A. Skok. *Chemistry:* Rikki P. Alexander, Hydar Ali, Andrew R. Auty, Jeffrey P. Goddard, Jeremy Grundy, Lindsey A. Hobbs, Andrew T. J. Hope, Hang Y. Lau, Kwok B. P. Leung, Vernon P. J. Marti, Andrew D. Murray, Graeme P. Proud, Rebecca L. Royle, Philip Saul, Helen L. Thompson, Andrew T. Treadgold, Philip C. Walters. *Clinical Sciences:* Timothy R. Crook, Lesley K. Earl, Michael I. Graham, Janet L. Holden, Dominic P. Hue, Sandra Naish, Kieran G. O'Flynn. *Genetics and Biometry:* Elizabeth C. Gregg, Julie C. Lloyd, Susan H. Rider, Ines Santisteban Stone. *Geography:* Adrian G. Aguilar Martinez, Osman M. Bah, Melanie R. Limb, Simon T. Patrick, Penelope J. Woolf. *Geological Sciences:* Abdul G. S. A. Bazuhair, Alexander W. R. Bevan, Marcelle K. Bou-Dagher, Anba J. Farhan, Magdy H. Girgis, Neil A. Harbury, Wendy L. Kirk, Thabit D. Madher Bashi. *Mathematics:* Angela K. O'Connor, Demetrios T. Papageorghiou, David J. S. H. Webber. *Pharmacology:* Martin J. Croucher, Diane Lipscombe, Robert A. O'Donnell, Wojciech Piotrowski, Stephen E. Webber, Jayne E. Worley. *Physics and Astronomy:* Timothy J. Batt, Paul L. Borrill, Clifford J. Brown, Peter J. Fitch, Christopher J. Hirst, Davina E. Innes, Paul A. Jerram, Lee C. Kenny, Nicholas D. Lloyd, Rosaly M. C. Lopes, Adrian Lyons, Kim N. Matthews, Raman K. Prinja, Peter A. Rounce, Brian Whitmore, Owen R. Williams. *Physiology:* Katherine Darton, Oketa O. Julu, Catherine J. Nieman, Adrian P. J. Pini, Clive A. Prince, Jennifer M. L. West. *Psychology:* Simon Philip Baron-Cohen. *Zoology and Cell Biology:* Timothy J. Baldwin, Robert A. Brett, Elizabeth G. Harrison, Andrew W. Stoker, Sally Temple. (103)

MPhil *Chemistry:* Carla Hagelberg. *Geography:* Wulf B. Stollbrock. *Physiology:* Monique E. P. Sarantis. (3)

MSc *Applied Molecular Biology and Biotechnology:* Richard W. Allen, Edward L. Almond*, Cedric C. Banfield*, Stephen P. Clerk, Andrew J. Gammack, Ronald G. Gethin, Gillian A. Hull*, Emma E. James, Hilary A. Powell*, Quek Seow Chiang, Benjamin H. R. Stubbs, Tan Tin Wee*, Kathryn V. Walsh. *Architecture:* Richard L. J. Abrines, Syahrir Abubakar, Said I. Acle, Kwadwo A. Agyekum-Bright, Elizabeth J. Aston, Narinder S. Assi, Abilio A. J. Barros D'Sa, Yvonne Bell, Firdevs A. Bilimer, Deamuni L. De Zoysa, Myra Y. Ecker, Mehmet I. Fikirlier, Charles I. Frame, Oladimeji O. Garuba, Tadeusz R. Grajewski*, Awad S. Hassan, David F. Hughes, Jaffer A. A. Khan, Maria Kolokotroni*, Seth K. La-Anyane, Li Yiu Kwong, David I. J. Magyar, Nelly Marda, Lucinda Marshall, Peter D. Marshall, Howard R. N. Martin, Graham J. Masefield,

Nasser F. R. Massoud, Elizabeth H. McKellar, Jeremy F. Moore, Dimitra Nikolaou, Stephen H. Pearson*, John D. Petropoulos, Gay F. Race, Andrew Q. Richardson, Taina M. Rikala De Noriega, Peter J. Rooney, Anjali Sadanand, Nicholas J. Sampson, Richard I. Scott, Behzad Seyf, Ambreen M. I. Sheikh, Andrew P. Shields*, Lionel J. Shirtcliffe, Zilah Q. Soares, Constantinos Sophocleous, Henrietta M. Startup, Roy S. Webb, Christina M. Zachariadou, Marcelo Zalcberg, Catherine Zeliotis*. *Biochemical Engineering:* Philip H. Bowles, Klaus Mannweiler, Neil A. Osborne. *Biological Anthropology:* Helen Blackholly, Catherine M. Hill. *Computer Science:* Iain R. Beath, Chia Boon Hui, Chua Guat Kheng, Andrew Coote, Edward Currie*, Andrew M. Dawson, Norman M. Fraser, Stephen W. Jackson, Philip M. Jones, Andrew J. Josey, Kai Tak Lung, Peter Lau Cheuk Fai, Gerald V. K. Leong, Anthony S. H. Loyd, Satha A. Maniam, Terence L. Morris, Pang Hui Luang, Malcolm W. Rowe, Jonathan D. Salkild*, Catherine V. Smallwood*, Irma A. Sobesto, Mark A. Stern, Luciano Tess, Nicholas J. R. Walker, Elizabeth M. Wolff, Chak C. Wong, Wong Peng Chiew. *Conservation:* Josephine R. Andrews, Claire H. Appleby, Christopher R. Birkinshaw, Catharina A. Cederlund, Adrian Colston, Caroline M. Crawford, John S. Ellett III, Adam B. Gretton, Adirahman A. Jimaleh, Nicola Penford, Fif J. Robinson. *Educational Psychology:* Elizabeth L. V. Bailey, Meryl F. Chetwood, Gladys De Groot, Sandra M. Dunsmuir, Alun P. Flynn, Miles D. Halliwell, June Lahiff, Andrew W. Lee, Julie Leighton, Ann M. Moore. *General and Medical Microbiology:* Stephanie N. Boucher, Lee Faulkner, Victoria S. Harley, Eva C. Kaltenthaler, Julie N. F. Kumbongsi, Florentia Kyriakidou, Peter J. E. Nunn, Karina Yazdanbakhsh. *History and Philosophy of Science:* Jeanette A. Cayley, Hairudin B. Harun, Atta Khaliq. *Hydrogeology:* Colin S. Cheney, Faith M. Church, Alan J. Croxford, Andrew A. Dow, Othniel N. Habila, Catherine L. Hearne, Hilal El Fadil Admed Hilal, Mohamed E. Ibrahim, Clement A. Kwei, Andrew A. McKenzie, Kym L. Morton, Jefter K. Sakupwanya, Edson T. Selaolo, Richard D. Watson. *Marine Geology and Geophysics:* Andrew N. M. Davies, James I. C. Docherty, Bambang Dwiyanto, Ian G. Mitchell*, Andrew C. Pierce, Jonathan Scott, Phoebus Spathopoulos. *Micropalaeontology:* Paul D. Gamson, Jacqueline Highton, Nicolette M. Hine, Peter Mears, David J. Pitman, Muhammad A. Rajput, Winton G. Wightman. *Neurological Science:* Ioanna E. Dori, Robert F. Halliwell. *Physiology:* Aneesa M. A. R. Al Sendi, Laura E. Chavez Noriega De Friedmann, Muhammad A. Khan, Raad H. Mohiaddin, Karim Rastegar, Christopher J. Saunders. *Remote Sensing:* David S. Bell, Juliet G. Bentley, Nicholas M. Chisnall, Brenda A. Davys, Paul A. Hartwell, Elizabeth H. Hume, David A. Irwin, James J. Liu, Kirstie L. Logie, Julia M. McMorrow*, Steven C. Morgan, Charlotte E. Obrien, Martin W. S Reid, Erik Tietema, Garry S. Tobiss, Paul F. Toomey. *Social Anthropology:* Artemis Kalavanou, Hariklia Paraskevopoulou, Mark A. Strutt. *Statistics:* Susan Cubbon, Robert M. Hart, Ruth E. Mason. *Vertebrate Palaeontology:* Janet Knights. (187)

*Awarded Mark of Distinction

PhD *Chemical and Biochemical Engineering:* Elizabeth G. Ceen, Stephen N. Davies, Roger P. Gower, Nasim U. H. Malik. *Civil and Municipal Engineering:* Protasio F. Castro, John R. Eyre, Kai-Wing Liu, Robin K. Wong. *Electronic and Electrical Engineering:* Dattatreya S. Achanta, Luiz de C. Calmon, Samuel D. Crossley, Abbas E. El-Shirbini, Fereydoun Faridian, Hugh D. Griffiths, Mohammad R. Khan, Javed A. Osmany, Nader Saffari, Chung W. See, Mehdi Vaez Iravani, Yeo Swee-Ping. *Mechanical Engineering:* Richard N. Andrew, Gautam K. Chaudhury, Geoffrey J. Lyons. *Psychology (Ergonomics Unit):* Andrew D. Whitefield. (24)

MPhil *Photogrammetry and Surveying:* Sami H. Al-Ali. (1)

MSc *Biochemical Engineering:* Julie Allam, Jomo Appolus, Mark A. Bulmer, Peter F. Burt, Hedley G. French, Gurminderjeet S. Jagdev, William J. Leo*, William J. MacDonald, Alison M. Price*, Andrew R. M. Provan, Beshir E. G. Said, Sheu Ruey-Bin, Sharon J. Soares. *Ergonomics:* Patrick H. R. Beasley, Thomas Kontogiannis, Vinai Kumar, Ian F. Ross. *Information Technology*†: Kevin G. Boast, Andrew J. Eaton, Joanne E. L. Frame, William J. Garratt, Andrew L. Hamilton, Timothy C. N. Hunt, Rachel M. Jones, Stephen W. Lavelle, Martin G. L. Packer, Malihai S. Perinpanayagam, Arnold J. Renwick, Andrew P. Sherman, Sarah J. Taubman, Ralph Williams. *Marine Engineering:* Lucky Anetor, Kahanawite G. E. R. H. K. Dharmawardene, Lleon S. Downes*, Peter G. Jennings*, Pauline A. McKay*, Stewart A. Moffatt, Konstantinos Polyzois, Roy E. Quilliam, Timothy J. Whitemore. *Microwaves and Modern Optics:* Peter H. Albach, Surinder M. Bali, Robert J. Boughton, Jefferson A. Browne, David M. T. Bryant, Yiu C. S. Choi, Francois A. Deborgies, Mahmoud Farhadidroushan, Jamshid Fouladian, Hamid R. Hassani, Stephen M. Hubbold, Michael G. McDermott, Jeremy A. C. Mills, Lawrence R. Normie, Hareshkumar Patel, Narinderjeet S. Rayit, Anne Rhodes*, Christian S. Ripoll, Christopher M. D. Rycroft, Martin W. Shelley, Philomena Skeffington, Robert A. Smith, Amit K. Som, Kevin L. Thomas, Deborah J. Vickers, Pierre P. Vieyres, Gary Wordsworth. *Naval Architecture:* Robert E. S. Dunbar*, Simon A. Harris*, John Hoole*, Andrew S. King*, Ian D. Prior, David J. Robertson, Christo S. Smit, Alasdair G. Stirling. *Ocean Engineering:* Farman Baradaran-Seyed, Michael P. Carter*, Dermot A. Courtney, Richard R. Leetham, Alan McGettigan, John G. Timoney, Mahmoud Vaziri, Karl A. Winter. *Photogrammetry:* Mohd J. B. H. M. Ali, David B. Wilkins*, Phillip P. Wilson, Ruth J. Yearley*. *Surveying:* Vanessa S. Clapton, Jon Davies, Jonathan M. Gaunt, Alan R. Knight*, Lee Li Chuan, Ian C. Martin, Mok Chi Ming, Alan D. Price*, Guy N. Pullen*, Alan R. H. Turcan, Andrew P. Wilson. (98)

*Awarded with Mark of Distinction

†MSc Information Technology — this course is taught jointly in the Department of Electronic and Electrical Engineering and the Department of Computer Science.

MD	Ian C. McManus.	(1)
PhD	*Clinical Sciences:* Richard J. Armitage, Josee T. Golay, Peter R. Likeman, David G. Wickens. *Zoology and Cell Biology:* Michael L. B. Becker.	(5)
MPhil	*Clinical Sciences:* Wathik A. Al-Obydi, Suad F. Noori.	(2)
MSc	*Periodontology:* John S. Furniss, Ernesto Rodriguez-Triana, Grace Tan Mui Youg.	(3)

APPENDIX IV

COLLEGE DIPLOMA AND CERTIFICATE AWARDS

1 OCTOBER 1985 — 30 SEPTEMBER 1986

FACULTY OF ARTS

Diploma of Proficiency in Phonetics: Maria D. Luongo, Loredana Paris. (2)

FACULTY OF SCIENCE

Diploma in Conservation: Josephine Ruth Andrews, Claire Elizabeth Appleby, Christopher Robert Birkinshaw, Catharina Anna Cederlund, Adrian Colston, Caroline Mary Crawford, John Spears Ellett III, Adam Benedict Gretton, Christopher Malcolm Tracey Johnson, Nicola Penford, Fif James Robinson. (11)

Diploma in General and Medical Microbiology: Stephanie Noelle Tristram Favareille Boucher, Lee Faulkner, Victoria Sarah Harley, Eva Charlotte Kaltenthaler, Julie Nda Focho Kumbongsi, Florentia Emilou Kyriakidou, Peter John Elros Nunn, Karina Yazdanbakhsh. (8)

Diploma in Hydrogeology: Faith Margaret Church, Alan John Croxford, Andrew Alan Dow, Cosmas Calvin Govati, Othniel Nanle Habila, Catherine Louise Hearne, Mohamed Elhassan Ibrahim, Clement Amartey Kwei, Andrew Alan McKenzie, Kym Lesley Morton, Francis Bernardone John Msonthi, Jefter Kuziwa Sakupwanya, Edson Tsiababa Selaolo, Richard Davey Watson. (14)

FACULTY OF ENGINEERING

Diploma in Biochemical Engineering: Julie Allam, Philip Harry Bowles, Mark Alastair Bulmer, Peter Francis Hillhouse Burt, Hedley Giles French, Gurminderjeet Singh Jagdev, William Joseph Leo*, William John MacDonald, Klaus Mannweiler, Neil Andrew Osborne, Alison Mary Price*, Andrew Roy Macleod, Beshir Elias George Said, Sheu Ruey-Bin, Sharon Janice Soares. (15)

Diploma in Information Technology: Kevin Gary Boast, Andrew John Eaton, Joanne Elizabeth Lind Frame, William Jonathan Garratt, Andrew Leonard Hamilton, Timothy Charles Nicolas Hunt, Gareth Harvey Jones, Rachel Maria Jones, Alexandra Kyriacopoulos, Stephen William Lavelle, Martin Geoffrey Lawson Packer, Malihai Suvendrini Perinpanayagam, Arnold James Renwick, Michael Andreas Satchwell, Andrew Paul Sherman, Sarah Jane Taubman, Ralph Williams. (17)

*Awarded with Distinction

Diploma in Marine Engineering: Lucky Anetor, Kahanawite Gama Eti Rallalage Harsha Kumara Dharmawardene, Lleon Simon Downes*, Peter Graham Jennings*, Pauline Ann McKay*, Stewart Alan Moffatt, Konstantinos Polyzois, Roy Quilliam, Timothy James Whitemore. (9)

Diploma in Microwave Engineering: Peter Heinrich Albach, Surinder Mohan Bali, Robert James Boughton, Jefferson Andrew Browne, David Michael Trenchard Bryant, Yiu Chung Savio Choi, Francois Albert Deborgies, Mahmoud Farhadiroushan, Jamshid Fouladian, Hamid Reza Hassani, Stephen Mark Hubbold, Michael Gary McDermott, Jeremy Anthony Christopher Mills, Lawrence Robert Normie, Hareshkumar Patel, Narinderjeet Singh Rayit, Anne Rhodes*, Christian Sauveur Ripoll, Christopher Michael David Rycroft, Martin William Shelley, Philomena Skeffington, Robert Arthur Smith, Amit Kumar Som, Deborah Janice Vickers, Pierre Philippe Vieyres, Gary Wordsworth. (26)

Diploma in Ocean Engineering: Farman Baradaran-Seyed, Michael Paul Carter*, Dermot Anthony Courtney, Richard Roland Leetham, Alan McGettigan, John Gerard Timoney, Mahmoud Vaziri, Karl Anthony Winter. (8)

Diploma in Naval Architecture: Robert Eric Stirling Dunbar*, Simon Allan Harris*, Andrew Stephen King*, Ian David Prior, David John Robertson, Christo Stanley Smit, Alasdair Glen Stirling. (7)

FACULTY OF ENVIRONMENTAL STUDIES

Field Experience Year Certificate: Caroline Jane Moxley. (1)

Pre-Diploma Certificate in Architecture: Paul Kelland, Marianne Patricia Wylson. (2)

Certificate in Development Planning: Keshawa Kallianpur Achary, Mohammad K. F. Al. Enzi, Nalagampalli Papani Bhujagendra Naidu, Vijaykumar Dave, Pooran Krishan Kaul, Cyril Khonglah, Chang-Ki Kim, Balarama Kesava Kothandapani, Jin-Far Lee, Sankada Paol Mandava, Rajendra Prasad Nagdeve, Suraj Prakash Pal, Ravindra Nath Prasher, Yolanda Concepcion Benitez de Rodriguez, Nand-Nandan Thapliyal, Divarka Prasad Tiwari, Yeh Shaing-Hai Yeh. (17)

*Awarded with Distinction

APPENDIX V

SCHOLARSHIPS, STUDENTSHIPS AND PRIZES
COLLEGE AND UNIVERSITY AWARDS

COLLEGE AWARDS

Eleanor Allen Prize (Economics)—A. J. Brown.
Charlotte Ashby Prize (Laws)—J. Herberg.
Atchison Scholarships (Clinical Sciences)—T. Nayani.
Atchison Exhibitions (Clinical Sciences)—K. H. Tan.
Sir Herbert Henry Bartlett Scholarships (Architecture)—Claire Hagerty, Ro Spankie, S. J. Lee, Dana Arnold, C. Couch.
Herbert Batsford Prize (Architecture)—D. Maclean.
Leonard Bayliss Memorial Prize (Physiology)—I. Crossley.
Bayliss-Starling Memorial Scholarship (Physiology)—Catherine David.
Francis Perch Bedford Prize (Zoology)—M. Barrett.
Philip Seth Belasco Prize in Medicine—J. Hughes, K. H. Tan, A. Grant, T. Nayani.
Ada Heather Bigg Prize (Economics)—M. S. Tickle.
Boise Scholarships (Fine Art)—Perry Yapp, Kate Davis, Amanda Watson, Verity A. Smith, Karen Lyons, A. G. Hazell, Christina Lorimer, K. Dunbar-Marks, H. Kondracki, S. Patel, Catherine Yass, Alison Jones.
Bonney Prize (Geological Sciences)—A. S. Maxwell.
Bosanquet Prize (Mathematics)—P. E. Kahn.
R. E. Bradbury Memorial Prize (Anthropology)—H. Bekele.
Broderick-Parry Prize (Geography)—Miranda Pearce.
Building Prize (Architecture)—Marjory Liew Sok Mei.
Bunnell Lewis Prize (Latin)—S. M. Brady.
Burhop Prize (Physics)—C. P. Howarth.
Rodney Burn Prize (Fine Art)—Anni Snape.
Margaret Elizabeth Dale Cast Prize (History)—Sally Tottle.
Chadwick Certificate and Prize (Civil Engineering)—I. A. Rahaman.
Cheng Tien-Hsi Prize (Laws)—P. Parrish.
Antonio Cippico Medal and Prize (Italian)—Sophia Pett.
Lillian Clarke Prize (Botany and Microbiology)—A. Robinson.
Clinton Prize (Electronic Engineering)—P. A. Randall.
Cowley Prizes (Library and Information Studies)—Katherine J. C. Hooper, G. J. McKall, Nuala T. I. McKevitt.
Croxon Memorial Scholarships (Clinical Sciences)—P. Glassman, H. S. Wasan, S. H. Ting, W. Wang Ee Jen, W. M. Jones, Seema Verma, G. Farfan.
Dawes Hicks Postgraduate Scholarships in Philosophy—S. Evnine.
Deans Scholarships—J. P. Rajapakse, J. Davila, J. Ouhalla.
Dental Anatomy Prize—D. M. Rowland.
Dental Pathology and Microbiology Prize—D. M. Rowland.
Dental Pharmacology and Therapeutics Prizes—A. Gibilaro, C. E. Taggart.
Dental Surgery Prize—K. R. Jones, M. D. Atkinson.
Dental Technology Prizes—D. E. Hudson.
Cyril De Vere Green Award (Dentistry)—A. Goll.

Donaldson Medal (Architecture)—S. J. Lee.
Brian Duff Memorial Prizes (Physics and Astronomy)—P. R. Kennedy, K. C. Smith.
Geoffrey Duveen Prize in Oto-Rhino-Laryngology—J. Hughes.
Early English Text Society's Prize—Joy Hutcheon.
Elliot-Blake Studentships—Adrienne Penfield, Julia Blake, A. Elliott.
Douglas and Anne Feltham Scholarship (Clinical Sciences)—A. F. Massoud, Nourieh Hoveyda.
Ferriere Scholarships (Clinical Sciences)—C. Cappetta, A. M. Taylor, S. Davies, Sing Hung Ting.
Flemming Elective Period Awards (Clinical Sciences)—J. Devane, A. Nigam, K. Hatch, H. Matthews.
Daryll Forde Award (Anthropology)—C. Thomas.
Goldsmid Elective Period Awards (Clinical Sciences)—I. C. Banks, C. Brewer, C. Barrett, R. Holmes, S. Ariffin, S. H. Ting.
Edith Goodyear Prize (Geological Sciences)—J. R. Baldock.
William Grossman Prize in Orthodontics—D. Pledger, D. G. Cohen.
Eva Grunwald Memorial Prize (French)—Penelope Lister.
Paul Haas Studentships (Biochemistry)—J. N. Daniels.
Paul Haas Studentships (Botany and Microbiology)—Claudia Reakes.
Violet Hall Prize (French)—Angela Pierce, Nicola Hitchcott.
Halley Prize (Astronomy)—A. A. Dixon.
Hart Prize (Photogrammetry)—K. J. Murray.
Hart Prize (Surveying)—D. M A. Walsh.
Hayward Fund Grants (Fine Art)—Maria Lara, G. Quinn.
Archibald P. Head Memorial Medal and Prize (Mechanical Engineering)—A. N. Hebbron.
Heimann Medal and Prize (German)—R. Scupham.
Herschel Prize (Astronomy)—S. R. Cherry.
Elsie Hitchcock Prize (English)—A. Tootill.
John Oliver Hobbes Memorial Scholarship in Modern English Literature—D. Rainsford.
Holford Travelling Scholarship (Planning)—Shelagh McNerney, Pauline F. Norton.
Hollier Scholarship in Greek—G. Owens.
E. D. Hughes Bursary (Chemistry)—Jacqueline R. Walton.
Joseph Hume Scholarship in Law—Tiffany F. Cloynes.
Huntingdon Research Centre Prize (Histology Part 1 Medical Sciences)—S. R. Johnson.
Hurst Prize in English Law—Dominique Garland.
Joel Hurstfield Prize (History)—M. Thomson.
ICI Prize (Second Prize in Anatomy Part 1)—M. J. K. Bankes.
ICI Pharmaceuticals Division Elective Period Awards (Clinical Sciences)—S. J. Burrell, G. Bryant, A. Massoud, S. Verma.
Institution of Civil Engineers Prize—N. A. Alexander.
Institution of Electrical Engineers Prize—K. A. Ridgway.
Institution of Mechanical Engineers Prize—L. R. Jarvis.
Jackson Lewis Scholarships—A. P. Lewis, M. Osmond, S. Doherty, A. G. Walton, P. Hernandez.
Sir Hilary Jenkinson Prize (Archives Studies)—D. A. Leitch.
Sir Hilary Jenkinson Scholarship in Archive Studies—Suzan M. F. Abou Elgheit.
Jolowicz Prize (Laws)—P. Kennedy.
Rhianon Jones Memorial Prize (English)—M. Illis.
Ker Memorial Prize (English)—R. Spurling.
Kestelman Prize (Mathematics)—J. A. Moriarty.

Kitson Prize (Chemical and Biochemical Engineering)—A. C. Rayner.
Dr R. Kohn Prize (Physiology Part 1—Medical Sciences)—S. R. Johnson.
Richard Laitner Memorial Fund Elective Period Awards (Clinical Sciences)—A. Massoud.
Sir Thomas Lewis Memorial Prize (Clinical Sciences)—J. Rashbass.
Library and Information Studies Exhibitions—Elizabeth M. Wells, Catherine M. Northeast.
Liston Gold Medal Prize for Surgery—J. Hughes.
Richard Llewelyn-Davies Travelling Scholarships (Architecture)—A. Taylor, Maxine Partridge.
Sir John Macalister Medal (Library and information Studies)—J. J. Franklin, M. R. Bedford.
Magrath Scholarship in Medicine Prize—J. Hughes.
Magrath Scholarship and Fellowes Gold Medal Prize—K. H. Tan, T. Nayani.
Betty Malcolm Scholarship (Fine Art)—C. Whitley.
Matthews Prize (Exploration Geophysics)—E. H. Lawrence, Catherina Splinter.
Maxwell Law Prize—N. C. B. Robinson.
Mead Scholarships in Geography —J. Parker, S. Juggins.
Medical Sciences Bursaries Fund Scholarships—Catherine L. Platt.
Medical Sickness Society Elective Period Award (Clinical Sciences)—K. Finlay, M. Bitner-Glindzicz.
Merck, Sharp and Dohme Ltd Prize (Biochemistry Part 1—Medical Sciences)—M. J. K. Bankes.
Merck, Sharp and Dohme Ltd Prize (Genetics Part II—Medical Sciences)—Catherine L. Platt.
Sir William Meyer Prize (Geography)—D. Childs, Monika M. Wolf.
Sir William Meyer Prize (History)—A. Manley.
Sir William Meyer Essay Prize (Psychology)—Fridrun F. Clarke.
Sir William Meyer Essay Prize (Geography)—A. Crowhurst.
Sir William Meyer Travelling Studentships (History)—R. A. Bickers, B. P. Clissitt, Linda J. Davey, P. Haywood, S. Lawson, Jill Maben, Nicola Musikant, Nicola Osborne, M. P. Thomson, Christalla Demetriades, Pauline Donnelly, Carolyn Jordan.
Momber Scholarship in Science—R. M. Aitken.
Cecily de Monchaux Memorial Prize (Psychology)—Fridrun F. Clarke.
Morley Medal and Prize (Modern English Literature)—S. S. Wordsworth.
Morris Prize (Geological Sciences)—H. S. Nicholls.
H. B. Murray Prize for Periodontology—A. Alavi, E. Bonetti.
Ronald Nyholm Prize (Chemistry)—A. J. Ball.
Orthodontics and Paedodontics Dentistry Prize (Clinical Sciences)—S. J. Burns, D. Pledger.
Perren Studentship (Astronomy)—D. J. Monk.
Platt Prizes (Greek)—A. S. K. Kelly, Catherine D. Ashley-Boulton, Julia C. Harvey.
Flinders Petrie Scholarship in Egyptian Archaeology—M. A. Collier.
Harry Poole Prize (Chemistry)—P. S. J. Jones.
Postgate Prize (Classical Philology)—Jane Stuart-Smith.
Prankerd-Jones Fund Elective Period Awards (Clinical Sciences)—G. Bryant, S. J. Burrell, J. Simpson, A. Olaitan, M. Drzymala, J. Edge, L. Hope, M. Chamley, J. Crowther, T. Gillow, A. Haigh, N. McConkey, M. Miller, K. Pickhaver, S. Tawse, S. Verma, A. Wallace, M. Wheeler, A. Young.
Prankerd-Jones Memorial Prize in Fine Art—S. Hillen.
Prankerd-Jones Memorial Prize in Immunology—Alison Pickford.
Prankerd-Jones Memorial Prize—Project—Part II Examination—Peng-Chiong Tan.
Ramsay Memorial Medal (Chemistry)—Hazel M. North.
Mary Rischgitz Prize (Fine Art)—S. Patel.
F. T. Roberts and Magrath Prize in Obstetrics and Gynaecology—G. Battle.
Fitzroy Robinson Drawing Prizes (Architecture)—P. Hull, R. A. Palmer.

Robert Ross Scholarship in Fine Art—H. Kondracki.
Rosenheim Elective Period Awards (Clinical Sciences)—K. Brown, G. Evison, A. Bradbury, P. Gandhi, N. Soon, C. Gath, P. Vooght, A. R. Lyons, G. Dunn, A. J. Henderson, S. Curry, M. Fardon, I. Heyman, N. M. Jones, N. Low, F. Machado, A. McGhee, S. Pilkington, J. B. Patel, J. Porter, B. Rhodes, A. Tillett, G. Watkins.
L. M. Rothschild Scholarship in French—M. Screech.
Schafer Prize in Physiology—M. Tessier-Lavigne.
Simmons and Simmons European Communities Law Prize—P. Bailey.
Simmons and Simmons Land Law Prize—Mine O. Hifzi.
Slade Prize (Fine Art)—Josephine T. Bacon.
Slade Scholarships (Fine Art)—Karen Pierre, M. Bell, C. Regan, Susan Collins, Catherine Yass, Lucy E. Davies.
Franz Sondheimer Prize (Chemistry)—P. Gleghorn.
Harold Speight Prize in Economics—L. M. Phillips.
Stevenson Prize (Applied Mathematics)—M. J. Cavallini.
John Stuart Mill Scholarship in Philosophy of Mind and Logic—S. Evnine.
Suckling Prize in Obstetrics and Gynaecology—H. Montgomery.
Sully Scholarship (Psychology)—Maeve Ennis.
C. A. R. Tayler Prize (Physics and Astronomy)—S. M. Barnett.
Sir Andrew Tayler Prize in Architecture—P. Greenwood, A. Taylor.
J. A C. Thomas Scholarship (Laws)—J. M. A. Clore.
Henry Tonks Prize (Fine Art)—Alison Jones.
Townsend Viking Society Prize (Scandinavian Studies)—Kirsten Wolf.
Trouhton Scholarship—R. H. Ashworth.
Tuffnell Scholarship (Chemistry)—Susan M. Trevellick, A. G. Neville.
A. J. V. Underwood Exhibition (Chemical and Biochemical Engineering)—J. G. Antonio.
L. F. Vernon-Harcourt Prize (Civil Engineering)—H. Kamyab.
F. M R. Walshe Prize in Neurology—J. Nicholas, M. S. Chong.
Ellen Watson Memorial Scholarship in Applied Mathematics—S. J. Parkinson.
Webber Prize (Laws)—Davina Cooper.
Dr Christopher Whiteside Awards (Clinical Sciences)—A. Lyons, Katharine M. S. Hatch, Seema Verma, M. J. Stawarz, Anne Haigh, Susan Fish, Adele K. Fielding, P. Harrison.
Dr D. T. Whittet Prizes (Pharmacology Part II—Medical Sciences)—Sabina H. Maudarbocus. Catherine L. Platt.
Audrey Wykeham Prize (Fine Art)—M. Bell.
T. C. Yu Elective Period Awards—F. Cowie, S. Fish, K. K. Go, P. Harrison, B. Lau, B. Lewis, P. Peters, J. Roberts, J. Rashbass, J. Setterfield, L. Watson, G. Williamson.

FACULTY MEDALS AND PRIZES

Arts: Rosa Morison Memorial Medal and Prize—S. M. Brady.
Engineering: Goldsmid Medal and Prize—L. R. Jarvis.
Environmental Studies Medal and Prize—S. J. Lee.
Laws: Andrews Medal and Prize—N. Robinson.
Medical Sciences: Medal and Prize—Zeenat T. Bhanji.
Science: Medal and Prize—I. Tidder.

SESSIONAL PRIZES

Anthropology: Kaberry Prize—A. Pirzada, H. Paterson. *M. G. Smith Prize*—L. J. Rusbridge. *Rosa Morison Pize*—K. E. Goaman.

Dutch: Sessional Prize—Nicolette Young.

Economics: Hume-Lloyd Scholarships—S. R. S. Cox, T. Kluczkowski, N. Crabtree. *G. C. Allen Prize*—A. E. Daniels. *Sessional Prize*—Y. J. Kurnedz.

English: Campbell Clarke Scholarships—Martine Stead, Melanie Brewer. *West Scholarship*—A. Glachan.

Fine Art: Coldstream Prize—J. Anderson. *Monnington Prize*—Marjieh Fathi.

French: Rosa Morison Prizes—P. Ffrench, Nancy O'Brien.

Geography: College Prize—Lisa Webb. *H. C. Darby Prize*—Helen Bennion. *Maconochie Prize*—R. J. Hibbert. *1903 Prize*—J. Mason. *W. R. Mead Prize*—Samantha Dawe.

German: Robertson Prize—Jane Ferguson. *Willoughby Prize*—Wiebke Brockhaus.

Greek: Long Prize—H. D. Dix. *Webster Prize*—Sarah Halsey.

History: Alfred Cobban Prize—J. Allen. *Dolley Prize*—Clarissa Batchelor. *West Prize*—I. Staines. *Pollard Prize*—R. Bickers.

History of Art: Gombrich Prize—S. P. Gritt, H. Sigurdsson. *Wittkower Prize*—Catherine Cheetham.

Italian: Sir Anthony Panizzi Prize—Loredana Paris.

Latin: Key Prize—P. W. N. Green. *Sessional Prize*—Janet Cozens.

Philosophy: Dawes Hicks Scholarships—Anna Pryor, Patricia Walsh.

Phonetics and Linguistics: Harold E. Palmer Prize—Wiebke G. Brockhaus. *Alexander Melville Bell Prize*—Anne Dalton. *Goldman-Eisher Prize*—Anita Somerton. *D. B. Fry Prize*—Mei C. D. Cheung.

Scandinavian Studies: Crabtree Prize—Joanne Ashworth.

Spanish and Latin American Studies: Alcala Galiano Prize—R. Warden. *A. A. Parker Prize*—M. Sinha-Ray.

Laws: Andrews Prizes—Dominique Garland, M. Kirsh, P. Parris, I. Yeo, Mary Baker.

Architecture: Bartlett Prizes—Harriet Holt, S. Barrett, Elanor Warwick, D. Hancock.

Anatomy and Embryology: J. Z. Young Prize—Lorraine Albon, Carolyn Lavers. *N. A. Barnicot Prize*—Lilli Matson, Joanna Pearce.

Biochemistry: Jack Drummond Prize—M. F. Burslem. *Plimmer Prize*—B. M. Gammon.

Botany and Microbiology: Darwin Prize—Isabel Lea. *Robert Hooke Prize*—Sarah Money. *Huxley Prize in Biology*—Fiona Hawley.

Chemistry: C. K. Ingold Prizes—S. Doherty, R. D. Howell, J. K. Jenkins, C. A. Wilson.

Computer Science: Sessional Prizes—M. Handley, D. Gourley, G. Pearson.

Genetics and Biometry: Genetics and Biometry Prize—J. S. Clifford, L. Smith.

Geological Sciences: Chubb Prize—W. K. Campbell. *Hollingworth Prize*—S. S. Gornall.

Mathematics: Filon Prize—A. G. Walton. *Hill Prize*—N. C. Carr. *Jeffery Prize*—R. W. McKenna.

Pharmacology: Sessional Prize—D. A. Fennell.

Physics and Astronomy: William Bragg Prize—K. B. Teo. *Huggins Prize*—J. R. Deacon. *Oliver Lodge Prize*—P. J. Smith. *Wood Prize*—K. M. Rattray.

Physiology: Foster Prize—C. McGilligan, J. Twigg.

Psychology: McDougall Prize—Anna L. Marsland. *Spearman Prize*—H. Smallman.

Statistical Science: Egon Pearson Prize—G. Tily. *Karl Pearson Prize*—C-K Chan.

Zoology and Cell Biology: Zoology Prizes—A. Michael, Pauline Hernandez.

Chemical and Biochemical Engineering: Goldsmid Prizes—C. T. Aitken, Anne P. Royles, T. A. T. Syed.

Civil and Municipal Engineering: Goldsmid Prizes—Elizabeth Z. Buswell, R. A. Colwell, J. F. Cronin-Coltsmann.

Electronic and Electrical Engineering: Goldsmid Prizes—P. Nowell, R. A. Villa, S. L. Stroud.

Mechanical Engineering: Goldsmid Prizes—P. J. Evans, D. T. Feely, P. Tapscott.

Medical Courses—Part I Examination: Drummond Prize in Biochemistry—N. R. Holland. *Glaxo Prize for Best Aggregate Performance in Part I*—N. R. Holland. *ICI Prize in Physiology*—P. R. Arlett. *Smith Kline and French Laboratories Limited Prize in Anatomy*—Phillipa J. Chapman.

Medical Courses—Part II Examination: Behavioural Sciences Prize—Audrey Clarke. *Cluff Prizes in Physiology*—Scarlett A. Hutchinson, Catherine L. Platt. *Cuxson Gerrard Prize in Pharmacology*—M. S. Petrou. *Drummond Prize in Biochemistry*—Neera K. Patel. *Elga Prize in General Pathology*—Catherine L. Platt. *Suckling Prize in Neurosciences*—Mario S. Petrou, Catherine L. Platt. *Wellcome Prize in Human Biology*—Neera K. Patel. *Wyeth Prize for Best Aggregate Performance in Part II*—Catherine L. Platt. *Project Prizes*—Victoria M. Hoptroff, R. G. Tansley.

Second Examination in Dental Surgery: Anatomy Prize—Isabelle Cummins. *Biochemistry Prize*—Karen S. Heale. *Physiology Prize*—E. V. P. Johnstone. *Best Aggregate Performance Prize*—E. V. P. Johnstone.

UNIVERSITY POSTGRADUATE AWARDS

N. H. Baynes Prize—Rosalind Thomas. *Derby Prize in History*—Andrew Peter Manley (shared with one other student). *Lubbock Prize*—Simon James Parkinson. *Myerscough Prize*—Shashi Madhu Kanbur (shared with three other students).

APPENDIX VI

BENEFACTIONS, DONATIONS, RESEARCH GRANTS AND CONTRACTS

The College Committee makes grateful acknowledgement of the following:

ABBOTT LABORATORIES LTD

£15,000 for the Department of Geriatric Medicine for research into nutrition in old age.

AGIP UK LTD

£20,000 for the Department of Mechanical Engineering as an industrial sponsor's contribution to the London Marine Technology Centre.

AGRICULTURAL AND FOOD RESEARCH COUNCIL

£23,031 for the Department of Genetics and Biometry for research on sex reversal in mammals: an attempt to obtain female development in the male-determining DNA sequences.

ANGLIAN WATER AUTHORITY

(1) £45,785 for the Department of Civil and Municipal Engineering for the study of activated carbon in water treatment.

(2) £41,564 for the Department of Civil and Municipal Engineering for a filtration of algae and zooplankton penetration through water treatment processes.

ANGLO-AUSTRALIAN OBSERVATORY

£33,129 for the Department of Physics and Astronomy for the construction of external memory for the AAO IPCS.

ARTHRITIS AND RHEUMATISM COUNCIL

£29,713 for the Department of Medicine for further studies of Lupus autoantibodies and idiotypes.

ASSOCIATION FOR INTERNATIONAL CANCER RESEARCH

(1) £24,000 for the Department of Biochemical Pathology for the use of quantitative image analysis in the study of cell genealogies.

(2) £1,000 for the Department of Botany and Microbiology for studies of mutagenesis.

ASTHMA RESEARCH COUNCIL

(1) £4,302 for the Department of Pharmacology for the study of Substance P as a mediator of allergic bronchospasm.

(2) £2,230 for the Department of Pharmacology for a study of the slowly developing tonic spasm of guinea-pig bronchiolar muscle produced by protein Kinase C activation.

BAYER UK LTD

£18,000 for the Department of Surgery for a study to assess the efficacy and safety of rioprostil in gastric ulcer healing.

BOW VALLEY

£10,000 for the Department of Mechanical Engineering as an industrial sponsor's contribution to the London Marine Technology Centre.

BRITISH ACADEMY

(1) £500 for the Department of Anthropology for an international conference on the history of Kano: "Kano and Her Neighbours".

(2) £235 for the Department of Classical Archaeology for a conference in Cyprus between the Orient and the Occident.

(3) £8,736 for the Department of Egyptology for the computerisation of the project "To survey, investigate and record the site and history of Memphis".

(4) £8,736 for the Department of Egyptology for the compilation of a computerised Memphis Archive.

(5) £1,195 for the Department of Egyptology for Demotic Egyptian stelae and ostraca from the sacred animal necropolis Saggara, Egypt.

(6) £150 for the Department of Egyptology for the International Congress of Egyptology.

(7) £350 for the Department of Geography for the Environmental Design Research Association conference.

(8) £90 for the Department of Hebrew and Jewish Studies for the Peshitta Symposium.

(9) £10,000 for the Department of History for a computer-produced camera-ready copy of the Texts of Roman Laws.

(10) £9,868 for the Department of History for the study of the communities of four Breton communes (Morbihan) in the early modern period.

(11) £9,868 for the Department of History for a survey of East Brittany.

(12) £4,500 for the Department of History for a study of the relationship between, and the development of landscape, land-use, and settlement in the Oust/Vilaine watershed in East Brittany.

(13) £1,981 for the Department of History for "War and the imagination in the Renaissance".

(14) £2,500 for the Department of Latin and Greek for "A collection of Iranian loan words in Classical Armenican".

(15) £2,250 for the Departments of Latin and Greek and Hebrew and Jewish Studies for collaboration in research between areas of Hebrew and Greek studies.

(16) £1,574 for the Department of Economics for the study of the impact of accelerated technological modernisation.

BRITISH HEART FOUNDATION

(1) £33,570 for the Department of Anatomy and Embryology for "Regulation of blood pressure by purines in the normotensive and hypertensive states".

(2) £41,203 for the Department of Physiology for a study of the effects of metabolic blockade on myocardial ionic regulation.

(3) £22,517 for the Department of Physiology to study the contribution of myofilament geometry to the length-tension relationship of cardiac muscle.

BRITISH LIBRARY

(1) £199,550 for the Department of Computer Science for information exchange in the research community.

(2) £15,000 for the Department of Computer Science for a feasibility study in information technology.

BRITOIL PLC

£20,000 for the Department of Mechanical Engineering as an industrial sponsor's contribution to the London Centre for Marine Technology.

BP INTERNATIONAL LTD

£80,000 for the Department of Geological Sciences to acquire and develop a Zeiss IBAS image analysis system.

BRITISH PETROLEUM LTD

(1) £4,000 for the Department of Chemical and Biochemical Engineering for Combustion Research.

(2) £8,336 for the Department of Geological Sciences for the triaxial ice research project.

(3) £20,000 and £10,000 for the Department of Mechanical Engineering as industrial sponsor's contributions to the London Centre for Marine Technology.

BRITISH TECHNOLOGY GROUP

(1) £40,500 for the Department of Haematology for research into novel pyrone and related compounds for medical applications in the fields of iron overload, cancer and anaemias.

(2) £9,660 for the Department of Haematology for a study of anti-sickling compounds.

BRITISH TELECOM

(1) £95,243 for the Department of Electronic and Electrical Engineering for studies in Digital Optics.

(2) £31,942 for the Department of Phonetics and Linguistics for the study of intelligibility, naturalness and acceptability of synthetic speech.

BRITOIL PLC

£20,000 for the Department of Mechanical Engineering as an industrial sponsor's contribution to the London Centre for Marine Technology.

JOHN BROWN

£20,000 for the Department of Mechanical Engineering as an industrial sponsor's contribution to the London Centre for Marine Technology.

JOHN BROWN OFFSHORE STRUCTURES LTD

£10,000 for the Department of Mechanical Engineering as an industrial sponsor's contribution to the London Centre for Marine Technology.

BROWN AND ROOT PLC

£20,000 and £10,000 for the Department of Mechanical Engineering as an industrial sponsor's contributions to the London Centre for Marine Technology.

CALIFORNIA INSTITUTE OF TECHNOLOGY

£20,000 for the Department of Physics and Astronomy for "Demonstration of a wind measuring capability for a tropospheric ultra-violet lidar system".

CANCER RESEARCH CAMPAIGN

(1) £16,386 for the Department of Anatomy and Embryology for the study of muscle differentiation.

(2) £56,602 for the Department of Biochemistry for "Structure, expression of genes coding for cytochrome P-450".

(3) £28,951 for the Department of Genetics and Biometry for the investigation of somatic genetic changes in the development of testicular teratoma.

(4) £14,528 for the Department of Genetics and Biometry for "Oncogene activation in familial polyposis coli".

(5) £35,272 for the Department of Haematology for clinical trials in lung cancer.

(6) £20,683 for the Department of Histopathology for the study of extra-nodal lymphonas.

(7) £3,865 for the Department of Surgery for the study of lipid metabolism in experimental colon cancer and the effects of dietary modification.

(8) £38,882 for the Department of Zoology and Cell Biology for the study of cellular genes activated by Herpes Simplex virus.

C. AND S. ANTENNAS LTD

£37,845 and £8,165 for the Department of Electronic and Electrical Engineering for the design of an HF Circular Array of active elements.

CENTRE D'ETUDES ET DE RECHERCHE SUR LES QUALIFICATIONS

FF 73,500 for the Bartlett School of Architecture and Planning for a comparative survey of site organisation in four European countries.

COGENT LTD

£10,000 for the Department of Mechanical Engineering as an industrial sponsor's contribution to the London Centre for Marine Technology.

COMMISSION OF THE EUROPEAN COMMUNITIES

(1) ECU 14,000 for the Bartlett School of Architecture and Planning for the development of a joint study programme.

(2) ECU 2,000 for the Bartlett School of Architecture and Planning for a joint study programme in Architecture/Urban Design.

(3) £5,720 for the Department of Geological Sciences for a study of the mechanisms of deformation and transformation in polymorphic systems.

(4) £23,300 for the Department of Obstetrics and Gynaecology for a haemoglobinopathy control programme in the Bombay area of India.

(5) £197,668 for the Department of Computer Science for a European programme for research and development in information technologies.

(6) £25,000 for the Department of Photogrammetry and Surveying for the development of instrumentation and techniques to study the effects of air pollutants on buildings and monuments.

(7) £1,270 for the Department of Surgery for a joint study programme in gastroenterology.

COMPUTER BOARD AND RESEARCH COUNCILS' JOINT NETWORK TEAM

£14,000 for the Department of Computer Science for internetworking services.

CONOCO LTD

£20,000 and £10,000 as an industrial sponsors's contributions to the London Centre for Marine Technology.

COUNTRYSIDE COMMISSION

£14,526 for the Department of Geography for "Occupancy change and the farmed landscape".

CYANAMID OF GREAT BRITAIN LTD

£10,990 for the Department of Geriatric Medicine for a study of Fenbufen/Lederle.

DEPARTMENT OF EDUCATION AND SCIENCE

£11,012 and £1,009 for the Bartlett School of Architecture and Planning for an interim further study on space standards and configuration in the research laboratory.

DEPARTMENT OF ENERGY

(1) £15,882 for the Department of Mechanical Engineering for the establishment of calibration procedures for accurately quantifying crack sizes in welded tubular joints.

(2) £10,000 for the Department of Mechanical Engineering as an industrial sponsor's contribution to the London Centre for Marine Technology.

DEPARTMENT OF THE ENVIRONMENT

(1) £9,300 for the Bartlett School of Architecture and Planning for the study of the political organisation of local authorities.

(2) £720 for the Bartlett School of Architecture and Planning for "Local authorities: sectionalism, decentralism and local democracy".

(3) £284,512 for the Department of Civil and Municipal Engineering (Transport Studies Group) for the third phase of monitoring as part of the Urban Safety Project.

(4) £48,176 for the Department of Civil and Municipal Engineering for "Application of LILT to the Dortmund and Tokyo data sets and other tasks for ISGLUTI".

(5) £16,487 for the Department of Civil and Municipal Engineering (Transport Studies Group) for "Exposure to risk for car drivers living in Greater London.

(6) £3,165 and £705 for the Department of Civil and Municipal Engineering (Transport Studies Group) for "Comparison of the use of COBA, CONTRAM and Traffic Q for the economic appraisal of road improvement schemes in urban areas".

(7) £60,678 for the Department of Geography for "Acidification in lakes and reservoirs — diatom studies".

(8) £26,922 for the Department of Geography for "Pollutant take-up and stone decay in South Britain".

DEPARTMENT OF HEALTH AND SOCIAL SECURITY

(1) £50,000 for the Department of Medicine (General Practice Unit) for "A proposed course in Primary Health Care".

(2) £17,147 for the Department of Geriatric Medicine for a study of coverstock materials for incontinence garments.

(3) £7,800 for the Department of Medical Physics for the development of equipment for detecting the spread of urine in incontinence pads.

(4) £5,800 for the Department of Medical Physics for a feasibility study of an advisory system for Magnetic Resonance Imaging of the head.

(5) £130,000 for the Department of Statistical Science for "Disease modelling and information systems for Clinicians (CORU)".

DEPARTMENT OF TRADE AND INDUSTRY

(1) £88,465 for the Department of Chemistry for the study of critical properties and vapour pressures of organic compounds.

(2) £23,106 for the Department of Chemistry for "Acoustic thermometry using a spherical resonator".

(3) £59,800 for the Department of Computer Science for a pilot mail gateway service.

(4) (NATIONAL PHYSICAL LABORATORY) £23,254 for the Department of Electronic and Electrical Engineering for "Integrated optic Lithium Niobate modulators".

(5) £10,000 for the Department of Mechanical Engineering as an industrial sponsor's contribution to the London Centre for Marine Technology.

(6) £7,219 for the Department of Psychology (Ergonomics) for the investigation and development of quantitative evaluation techniques (cognitive modelling).

ECONOMIC AND SOCIAL RESEARCH COUNCIL

(1) £16,750 for the Department of Civil and Municipal Engineering (Transport Studies Group) for the study of the use of trip chains to investigate travel demand in a conurbation.

(2) £850 for the Department of Community Medicine for the study of psycho social factors and health in middle age.

(3) £27,830 for the Department of Economics for the modelling of individual household demand for gas and electricity.

(4) £25,150 for the Department of Economics for "Economics and the sustainable use of the environment".

(5) £22,710 for the Department of Economics for the study of the structure of VAT: the levels of tax yield and consumer welfare.

(6) £14,090 for the Department of Economics for the study of household composition and the design of indirect taxes.

(7) £976 for the Department of Economics for the analysis of SIAD members' pay.

(8) £372 for the Department of Economics for a preparatory meeting in Prague of the Vienna Centre.

(9) £267 for the Department of Economics for a conference on Economics and Ecology.

(10) £190 for the Department of Economics for an ESRC/CNRS research exchange scheme for social scientists.

(11) £39,300 for the Department of Geography for the study of occupancy change and the farmed landscape.

(12) £1,350 for the Department of Hebrew and Jewish Studies for a conference on community and assimilation in European Jewry, 1815-1881.

(13) £69,960 for the Department of History for the study of the theory of constitutional government in the collected works of Jeremy Bentham.

(14) £208 for the Department of Phonetics and Linguistics for the study of the interaction between grammar and pragmatics.

(15) £300 for the Department of Psychology for the study of reading and writing in English and Italian children.

ELF PLC

£20,000 and £10,000 for the Department of Mechanical Engineering as an industrial sponsor's contribution to the London Centre for Marine Technology.

ENTERPRISE OIL PLC

£20,000 and £10,000 for the Department of Mechanical Engineering as an industrial sponsor's contribution to the London Centre for Marine Technology.

ESSO LTD

£40,000 for the Department of Mechanical Engineering as an industrial sponsor's contribution to the London Centre for Marine Technology.

EUROPEAN ECONOMIC COMMUNITY

£98,900 for the Department of Botany and Microbiology for the study of the resistance to disease of chickpea, pigeonpea, groundnut and kernel.

FOUNDATION FOR AGE RESEARCH

£21,352 for the Department of Anatomy and Embryology for the study of age related factors in bone cell function.

GEISTLICH SONS LTD

£13,700 for the Department of Geriatric Medicine for an Aminoplex Gel study.

GENERAL ELECTRIC COUNCIL (ESPRIT PROJECT)

£78,390 for the Department of Computer Science for an integrated network architecture for office communication.

GENERAL ELECTRIC COMPANY

£50,242 for the Department of Psychology (Ergonomics) for the development of a prototype interface design for modelling the user.

GREATER LONDON COUNCIL

1) £5,450 for the Bartlett School of Architecture and Planning for a feasibility study in Battlebridge basin.

(2) £20,000 for the Department of Civil and Municipal Engineering (Transport Studies Group) for the studies of journey speeds in conurbations.

HELP THE HOSPICES

£60,088 for the Department of Community Medicine for an evaluation project on terminal care.

IMPERIAL CANCER RESEARCH FUND

£25,000 for the Department of Statistical Science for a research unit on disease modelling and information systems for clinicians.

IMPERIAL CHEMICAL INDUSTRIES

£13,750 for the Department of Geological Sciences for "The prediction of crystal structures of Pentasil zeolites".

INSTITUTE OF BIOTECHNOLOGICAL STUDIES

£90,000 for the Department of Chemical and Biochemical Engineering for the study of the extended use of biocatalysts.

JOSEPH ROWNTREE MEMORIAL TRUST

£23,484 for the Bartlett School of Architecture and Planning for an investigation of empty dwellings and void control in the public sector.

LEUKAEMIA RESEARCH FUND

£43,322 for the Department of Haematology for the clinical evaluation of autologous bone marrow transplantation in the haematological malignancies.

LONDON BOROUGH OF HARINGEY

£15,225 for the Bartlett School of Architecture and Planning for the formulation of housing strategy review.

LONDON CHEST HOSPITAL

£17,845 for the Department of Medical Physics for a digital radiology research project.

LONDON REGIONAL TRANSPORT

£11,000 for the Department of Civil and Municipal Engineering (Transport Studies Group) for the study of journey speeds in conurbations.

THE MACMILLAN SERVICE (ST JOSEPH'S HOSPICE)

£11,500 for the Department of Statistical Science for the evaluation of the different methods of caring for the incurably ill.

MARATHON OIL

£20,000 for the Department of Mechanical Engineering as an industrial sponsor's contribution to the London Centre for Marine Technology.

MARCONI DEFENCE SYSTEMS

£750 for the Department of Electronic and Electrical Engineering for a fault-tolerant integrated memory study.

MEDICAL RESEARCH COUNCIL

(1) £141,800 for the Department of Anatomy and Embryology for the study of hippocampal place cells: their role in spatial memory.

(2) £63,814 for the Department of Anatomy and Embryology for the study of the functions, composition and control of cardiac mytocyte gap junctions.

(3) £62, 192 for the Department of Anatomy and Embryology for the study of pre- and post-natal development of somatosensory processing in the spinal cord.

(4) £55,000 for the Department of Anatomy and Embryology for the localisation of neurotransmitter receptors in the autonomic nervous system.

(5) £34,440 for the Department of Anatomy and Embryology for patch clamp studies of the actions and release of neuropeptides at synapses in intramural autonomic ganglia.

(6) £21,858 for the Department of Anatomy and Embryology for the study of the effect of thyrotropin-releasing hormone and related hypothalamic releasing hormones on motoneuron excitability.

(7) £2,114 for the Department of Anatomy and Embryology for "Topographic refinement of the retino-tectal projection in goldfish".

(8) £830 for the Department of Anatomy and Embryology for the study of ATP as a cotransmitter in the sympathetic innervation of smooth muscle.

(9) £700 for the Department of Anatomy and Embryology for immunocytochemical studies of the adult and developing visual cortex.

(10 £55,600 for the Department of Biochemistry for the study of gene expression, subcellular targetting and inherited disease.

(11) £53,868 for the Department of Biochemistry for the chemical synthesis of phosphoglyceryl and the production of antibodies for its recognition and assay.

(12) £85,900 for the Department of Community Medicine for the study of social and occupational influences on health and illness.

(13) £52,261 and £13,350 for the Department of Experimental Pathology for the study of the role of guanine nucleotide binding protein in the activation of polyphosphoinositide phosphodiesterase.

(14) £45,928 for the Department of Genetics and Biometry for the identification of the regions of the human genome involved in the genesis of colorectal cancer.

(15) £4,955 for the Department of Haematology for studies into the biochemistry, biophysics and cell biology of the cytochrome b-245 oxidase.

(16) £450 for the Department of Mental Health for a combined social and psychophysiological exploration of cortical dysfunction in schizophrenia.

(17) £454,921 and £1,001 for the Department of Paediatrics for "Prevention of brain damage in newborn infants who require intensive care".

(18) £20,000 for the Department of Pharmacology for the study of the mechanisms of neurotransmitters.

(19) £2,000 for the Department of Pharmacology for research into an analysis of neurotransmitter receptors and synaptic function in the vertebrate central nervous system.

(20) £119,933 for the Department of Phonetics and Linguistics for the study of auditory theory and the abilities of the profoundly deaf.

(21) £38,117 for the Department of Phonetics and Linguistics for "Electrical hearing and speech patterns".

(22) £630 for the Department of Phonetics and Linguistics for "Electrical hearing and speech pattern presentation to the deaf".

(23) £70,772 for the Department of Physiology for a nuclear magnetic resonance study of the relationships between metabolites and functional ability in smooth muscle.

(24) £49,669 for the Department of Psychology for a study of levels of breakdown in sentence comprehension in aphasia.

(25) £36,670 for the Department of Psychology for an investigation of the role of conductive mechanisms in feedback of the voice.

(26) £500 for the Department of Psychology for the study of normal and disordered spoken comprehension.

(27) £785,551 and £6,550 for the Department of Zoology and Cell Biology for Developmental Neurobiology.

(28) £113,656 for the Department of Zoology and Cell Biology for the isolation of cDNA clones encoding an astrocyte-derived growth factor that acts on a bipotential glial progenitor cell.

(29) £63,850 for the Department of Zoology and Cell Biology for the study of the development and function of mammalian sensory neurones.

(30) £48,944 for the Department of Zoology and Cell Biology for the genomic investigation of a new vimentin associated protein.

MENTAL HEALTH FOUNDATION

£9,100 for the Department of Psychiatry for the study of evoked cortical potential in unmedicated acutely ill patients.

MICRA LTD

£40,000 for the Surgical Unit for anastamosis research.

MINISTRY OF DEFENCE

(1) £11,489 for the Department of Chemistry for "Resonance raman spectroscopy of explosives".

(2) £3,140 for the Department of Chemistry for "Nitration using dinitrogen tetroxide".

(3) £24,476 for the Department of Computer Science for a research study into distributed data bases.

(4) £8,855 for the Department of Electronic and Electrical Engineering for "Parabolic reflector antenna in a phased array feed".

(5) £34,772 and £1,874 for the Department of Psychology (Ergonomics Unit) for human factors research associated with the application of IKBS and MMI techniques to decision aids.

(6) £7,256 and £7,035 for the Department of Mathematics for a numerical study of shock wave turbulent boundary layer interaction.

(7) £19,920 for the Department of Mechanical Engineering for the development of a pressure integration technique for hydrostatic analysis.

(8) £7,900 and £6,856 for the Department of Mechanical Engineering for the detection and characterisation of corrosion in aircraft structures.

(9) £5,594 for the Department of Phonetics and Linguistics for the study of the phonetic effects of word boundary in automatic speech recognition.

(10) £7,283 for the Department of Photogrammetry and Surveying for the study of weapon alignment techniques system and instrumentation.

MULTIPLE SCLEROSIS SOCIETY

(1) £55,518 for the Department of Anatomy and Embryology for studies in the role of galactocerebroside in neuronal-glial interactions in the CNS and PNS.

(2) £48,385 for the Department of Zoology and Cell Biology for immunocyto-chemical studies of gliogenesis in the developing optic nerve.

(3) £18,412 for the Department of Zoology and Cell Biology for the study of the use of monoclonal anti-galactocerebroside antibodies *in vivo* to study the possible role of galactocerebroside in myelination.

MUSCULAR DYSTROPHY GROUP OF GREAT BRITAIN

(1) £16,536 for the Department of Anatomy and Embryology for the study of changes of motoneurone properties during development.

(2) £13,200 for the Department of Anatomy and Embryology for "Muscle development: a study of *in vitro* myotube maturation".

(3) £11,500 for the Department of Anatomy and Embryology for the study of mechanisms controlling the survival of developing mononeurons.

(4) £23,223 and £14,176 for the Department of Medicine for the study of human T-lymphocyte clones.

NATIONAL ENGINEERING LABORATORY

£10,000 for the Department of Mechanical Engineering as an industrial sponsor's contribution to the London Centre for Marine Technology.

NATIONAL FOUNDATION FOR CANCER RESEARCH

$39,265 for the Department of Biochemical Pathology for studies in the control of proliferation.

NATIONAL FUND FOR RESEARCH INTO CRIPPLING DISEASES

(1) £45,727 for the Department of Anatomy and Embryology for the study of somite development and scoliosis.

(2) £21,588 for the Department of Mechanical Engineering for "Modular orthoses for paediatric rehabilitation based on the shapeable matrix concept".

(3) £96,702 for the Department of Medical Microbiology for a pilot study to investigate the occurrence and effects of human parvovirus infection during pregnancy.

(4) £75,383 for the Department of Physiology for the study of permeability barriers in the developing brain.

NATIONAL HEALTH SERVICE TRAINING AUTHORITY
(SOUTH-WEST REGIONAL HEALTH AUTHORITY)

£7,000 for the Department of Medicine (General Practice Unit) for "A course in urban primary health care for GPs".

NATIONAL MEDICAL RESEARCH FUND

£14,997 for the Department of Paediatrics for a follow-up study of children with UTI infection, vesico-ureteric reflux and renal scarring.

NATURAL ENVIRONMENT RESEARCH COUNCIL

(1) £26,127 for the Department of Botany and Microbiology for the study of the role of protective solutes in the high temperature tolerance and acclimation of higher plants.

(2) £4,975 for the Department of Chemistry for "Standard chronostratigraphy of the Middle Jurassic".

(3) £3,753 for the Department of Genetics and Biometry for the study of selection and gene flow in hybrid zones by heliconius butterflies.

(4) £44,802 for the Department of Geological Sciences for "Perovskite rheology and mantle dynamics".

(5) £20,187 for the Department of Geological Sciences for an investigation of the Mesozoic and Palaeocene history of the Eastern Equatorial Atlantic.

(6) £14,750 for the Department of Geological Sciences for "An Indonesian hydrocarbon basin assessment".

NORSK HYDRO

£20,000 and £10,000 for the Department of Mechanical Engineering as industrial sponsor's contributions to the London Centre for Marine Technology.

NORTH EAST THAMES REGIONAL HEALTH AUTHORITY

(1) £12,000 for the Department of Psychiatry for studies in Mental Health services.

(2) £7,100 for the Department of Psychiatry for Health Services studies.

NUFFIELD FOUNDATION

(1) £1,231 for the Department of Anatomy and Embryology for the study of the development of plasticity in the somatosensory system.

(2) £900 for the Department of Anatomy and Embryology for the study of the response of the developing motoneurone to a change of its peripheral field.

(3) £560 for the Department of Anatomy and Embryology for the study of changes in the innervation of cerebral blood vessels in diabetes mellitus.

(4) £560 for the Department of Anatomy and Embryology for the study of the regulation of blood pressure by purines.

(5) £2,300 for the Department of Anthropology for "Instability of Mortality in London, 1680-1820".

(6) £2,000 for the Department of Botany and Microbiology for "Plasmid conjugation in streptomyces".

(7) £2,000 for the Department of Chemistry for the design and application of new and milder synthetic methods.

(8) £2,000 for the Department of Chemistry for the synthesis and evaluation of novel phospholipids.

(9) £3,000 for the Department of Electronic and Electrical Engineering for research on oxidation of silicon using incoherent light.

(10) £2,402 for the Department of Genetics and Biometry for research on natural selection in hybrid zones of heliconius butterflies.

(11) £1,339 for the Department of Physiology for research on the energetics of shortening in muscle fibres.

(12) £3,682 for the Department of Zoology and Cell Biology for the nuclear targetting of proteins that regulate development.

(13) £950 for the Department of Zoology and Cell Biology for the characterisation of a new heat shock protein related molecule in TPA induced EBV transformed lines.

OCEANEERING INTERNATIONAL SERVICES LTD

£10,000 for the Department of Mechanical Engineering as an industrial sponsor's contribution for the London Centre for Marine Technology.

OTTERBOER BV

£20,000 for the Department of Surgery for the study of the effect of detergents on the gut.

OVERSEAS DEVELOPMENT ADMINISTRATION

(1) £100,430 for the Department of Botany and Microbiology for the study of resistance and tolerance mechanisms against parasitic angiosperm strica hermonthica.

(2) £29,819 for the Department of Botany and Microbiology for the development of a metabolic index of stress.

(3) £25,473 for the Department of Botany and Microbiology for the investigation of groundnut phytoalexin and its effects on aflatoxin formation.

(4) £18,973 for the Department of Botany and Microbiology for the production of mycotoxins of fungi which colonise sorghum.

(5) £4,354 for the Department of Civil and Municipal Engineering for the study of pre-filtration of high-turbidity waters for drinking water supply.

(6) £49,995 for the Department of Geography for the study of housing tenure and the urban poor in the Third World cities (Mexico).

(7) £11,000 for the Department of Histopathology for "Histopathology services for developing countries".

PILKINGTON BROS

£58,500 for the Department of Surgery for urological and neurological laser projects.

POLYTECHNIC OF THE SOUTH BANK

£3,000 for the Department of Economics for a study of the impact of nuclear attack on London.

POST OFFICE

£17,100 for the Department of History for research into Post Office History.

QUEST FOR A TEST FOR CANCER

(1) £13,000 for the Department of Genetics and Biometry for detection of those people in the population who are most likely to develop cancer.

(2) £11,000 for the Department of Genetics and Biometry to identify and test an early warning marker associated with cancer.

RACAL DEFENCE ELECTRONICS (RADAR) LTD

£8,500 for the Department of Electronic and Electrical Engineering for the construction and investigation of an experimental microwave delay line.

RANK-XEROX LTD TRUST

£33,000 and £8,000 for the Department of Laws to foster work in Commercial Law.

ROYAL ORDNANCE

£13,286 for the Department of Mechanical Engineering for ultrasonic wave propagation studies.

ROYAL POSTGRADUATE MEDICAL SCHOOL/MEDICAL RESEARCH COUNCIL

£62,646 for the Department of Biochemistry for the study of specificity and regulation of human isozyme and cytochrome P-450.

THE ROYAL SOCIETY

(1) £84,357 for the Department of Anatomy and Embryology for "Intercellular communication: immunological aspects of gap junctions and evidence for their role in pattern formation".

(2) £8,700 for the Department of Electronic and Electrical Engineering for the use of acoustic microscopes and thermal imaging techniques for subsurface examination of materials and, in particular, of microsurfaces.

(3) £41,700 for the Department of Geography for the study of the past acidification of catchments in the UK.

(4) £6,500 for the Department of Photogrammetry and Surveying for studies in solid earth geophysics.

(5) £90,506 for the Department of Physics and Astronomy for studies in X-ray Astronomy.

(6) £150 for the Department of Physiology for the study of the electrical properties of neurones in the vertebrate retina.

(7) £150 for the Department of Physiology for the study of the molecular biology of mammalian synaptic inhibitory amino-acid receptors.

(8) £78,429 for the Department of Zoology and Cell Biology for "*in vitro* culture and cloning of antigen-specific T cells; biochemistry of antigen metabolism by non-lymphoid accessory cells; T cell antigen receptors".

(9) £1,500 for the Department of Zoology and Cell Biology for "Molecular biology of antigen presentation and membrane proteins in invertebrate immunology".

THE ROYAL SOCIETY
(EPA CEPHALOSPORIN FUND)

£130,780 for the Department of Chemistry for the study of the structure and activity of proteins.

THE ROYAL SOCIETY
(PAUL INSTRUMENT FUND)

£43,000 for the Department of Electronic and Electrical Engineering for the construction of an integrated optic/network analyser.

RUTHERFORD LABORATORY

(1) £100,000 for the Department of Computer Science for the Arpanet Gateway Services.

(2) £33,300 for the Department of Physics and Astronomy for "Starlink Node".

SCIENCE AND ENGINEERING RESEARCH COUNCIL

(1) £71,000 for the Department of Anatomy and Embryology for "Stereoscope tandem scanning neglected light microscopy in bone, dental materials and CNS research.

(2) £44,080 for the Bartlett School of Architecture and Planning for "Space syntax as an interactive design tool".

(3) £2,050 for the Bartlett School of Architecture and Planning for the application of space syntax to work environment inside buildings.

(4) £48,538 for the Department of Botany and Microbiology for the metabolic and enzymological studies of ammonia assimilation in mycorrhizas.

(5) £46,375 for the Department of Botany and Microbiology for the characterisation of the quinone electron acceptors in the reaction centre of photosystem 2 and purple bacteria.

(6) £26,430 for the Department of Botany and Microbiology for the characterisation of the electron carriers involved in photosynthetic water oxidation.

(7) £3,000 for the Department of Botany and Microbiology for the application of electron spin echo spectrometry to kinetic studies of photosynthesis and mechanistic studies of metaloproteins.

(8) £330,805 for the Department of Chemical and Biochemical Engineering for a study to improve protein processing and stability.

(9) £106,879 for the Department of Chemical and Biochemical Engineering for the study of the kinetics of biological reactions involving a reactant-containing organic phase.

(10) £89,894 for the Department of Chemical and Biochemical Engineering for "Rapid analysis for the optimisation and control of protein".

(11) £59,900 for the Department of Chemical and Biochemical Engineering for the study of the hydrodynamics performance of bubble columns.

(12) £49,777 for the Department of Chemical and Biochemical Engineering for cell disruption studies using advanced particle analysis and novel containment.

(13) £34,773 for the Department of Chemical and Biochemical Engineering for "Gas fluidisation at elevated temperatures".

(14) £24,737 for the Department of Chemical and Biochemical Engineering for "Monitoring enzymes and proteins during fermentation and downstream processing".

(15) £15,455 for the Department of Chemical and Biochemical Engineering for precipitation studies.

(16) £14,920 for the Department of Chemical and Biochemical Engineering for dispersion of fine powders.

(17) £5,100 and £700 for the Department of Chemical and Biochemical Engineering as a contribution towards equipment for the teaching programme between UCL and Matthey Rustenberg.

(18) £80,000 for the Department of Chemistry for chemical investigations using high-field nuclear magnetic resonance spectroscopy.

(19) £40,100 for the Department of Chemistry for the study of new methods for the stereo-selective synthesis of disaccharides using free radical chemistry.

(20) £36,150 for the Department of Chemistry for FTIR studies of electrochemically generated species.

(21) £27,320 for the Department of Chemistry for the study of the speed of sound in pure fluids near the critical state.

(22) £26,150 for the Department of Chemistry for the study of the organic chemistry of ligated boranes.

(23) £26,150 for the Department of Chemistry for the study of oxygen-centred radical cations.

(24) £26,150 for the Department of Chemistry for the study of syntheses redox properties and catalytic behaviour of phosphorus ylid anions bound to transition metal ions.

(25) £26,150 for the Department of Chemistry for synthetic spectroscopic studies on one-dimensional semi-conductors.

(26) £500 for the Department of Chemistry for an investigation of the calculation of defects free energies.

(27) £83,000 for the Department of Civil and Municipal Engineering for London Marine Technology Centre research.

(28) £56,000 for the Department of Civil and Municipal Engineering for the study of the shear behaviour of soft-bed soils liable to be involved in slope failures influenced by earthquakes.

(29) £54,020 for the Department of Civil and Municipal Engineering for "Self burial of sealed pipelines".

(30) £50,472 for the Department of Civil and Municipal Engineering (Transport Studies Group) for interactive optimisation of the design of roundabouts.

(31) £48,224 for the Department of Civil and Municipal Engineering (Transport Studies Group) for the use of expert systems in road accident remedial work.

(32) £47,000 for the Department of Civil and Municipal Engineering for the study of unexpected capsize due to chaotic motions (COM 35).

(33) £32,760 for the Department of Civil and Municipal Engineering for the development of collapse analysis for improved marine pipeline design.

(34) £4,760 and £2,800 for the Department of Civil and Municipal Engineering (Transport Studies Group) for the comparison of road safety in Britain and the Federal Republic of Germany.

(35) 824,335 for the Department of Computer Science for advanced mega-internet research under Alvey (Admiral) — UCL.

(36) £296,920 and £9,720 for the Department of Computer Science for GRIP: a parallel graph reduction machine.

(37) £689,018 for the Department of Electronic and Electrical Engineering for microwave research.

(38) £156,644 for the Department of Electronic and Electrical Engineering for the study of sub-pico second optics in electronics.

(39) £52,727 for the Department of Electronic and Electrical Engineering for lithium niobate technology and devices.

40) £42,499 for the Department of Electronic and Electrical Engineering for "Non-linear optical fibre resonant ring rotation rate sensors".

(41) £17,482 for the Department of Electronic and Electrical Engineering for "Acousto-optic monomode fibre components".

(42) £10,000 for the Department of Electronic and Electrical Engineering for "Fibre optic computer networks using coherence multiplexing".

(43) £8,554 for the Department of Electronic and Electrical Engineering for the application of integrated optics to coherence multiplexing.

(44) £18,850 for the Department of Psychology (Ergonomics Unit) for "The human-expert system interface".

(45) £3,250 for the Department of Genetics and Biometry for the genetic analysis of the hybrid zone in bombina.

(46) £18,250 for the Department of Mathematics for the study of geometric problems of computation.

(47) £6,675 for the Department of Mathematics for "Further stability of swirling flows".

(48) £2,179 for the Department of Mathematics for the study of upstream influence and separation in flow past obstacles on a beta plane.

(49) £615,800 for the Department of Mechanical Engineering for the London Centre for Marine Technology research.

(50) £136,658 for the Department of Mechanical Engineering for "Test facility for petrol engine fuel systems".

(51) £61,000 for the Department of Mechanical Engineering for "Passive station keeping systems for floating marine vehicles".

(52) £51,000 for the Department of Mechanical Engineering for the application of robust controller design methods to the control of remote operated submersibles.

(53) £45,000 for the Department of Mechanical Engineering for the study of the motion damping characteristics of wind-assisted ship propulsion devices.

(54) £39,330 for the Department of Mechanical Engineering for the integration of design techniques — a numerical model for flexible pipe mechanical behaviour.

(55) £36,350 for the Department of Mechanical Engineering for "Fatigue in offshore structures, cohesive fatigue programme projects A1D and A2A".

(56) £26,700 for the Department of Mechanical Engineering for "Frequency domain analysis of upwelling non-linear extensions".

(57) £22,320 for the Department of Mechanical Engineering for "Fatigue in offshore structures, crack growth in X and Y joints".

(58) £1,050 for the Department of Mechanical Engineering for the investigation of methods for evaluating the dynamic failure strains of ductile materials.

(59) £441,470 for the Department of Phonetics and Linguistics for "Speech processing and phonetic algorithms".

(60) £81,500 for the Department of Phonetics and Linguistics for "Formal relations between acoustic and phonetic descriptions of speech".

(61) £34,108 for the Department of Phonetics and Linguistics for "Speech input/output: an implementation for Chinese".

(62) £781,100 and £6,000 for the Department of Physics and Astronomy "Geophysical and Astronomical Research in Space".

(63) £311,532 for the Department of Physics and Astronomy for "Experimental High Energy Physics, 1986-88".

(64) £255,253 for the Department of Physics and Astronomy for "Experimental High Energy Physics, 1985-86".

(65) £285,000 for the Department of Physics and Astronomy for "Atmospheric Research, 1986-88".

(66) £66,992 for the Department of Physics and Astronomy for the development of efficient positron moderators and the production of positronium beams.

(67) £39,860 for the Department of Physics and Astronomy for the study of elastic and inelastic positron collisions using the R-matrix method.

(68) £38,288 for the Department of Physics and Astronomy for the study of free-free continuum processes in autoionisation.

(69) £36,500 for the Department of Physics and Astronomy for a programme of ground-based infrared astronomy.

(70) £32,050 for the Department of Physics and Astronomy for instrument development for ISO.

(71) £28,305 for the Department of Physics and Astronomy for completion of the CCD IPCS.

(72) £22,500 for the Department of Physics and Astronomy for "Attitude determination and control sub-system study for T-sat".

(73) £20,000 for the Department of Physics and Astronomy for an electrostatic slow positron beam system for positron and positronium gas scattering studies.

(74) £10,000 for the Department of Physics and Astronomy for equipment up-grade for high-latitude interferometers.

(75) £7,800 for the Department of Physics and Astronomy for "Electronics for a CCD-based image photon counting system, Amendment 2".

(76) £6,455 for the Department of Physics and Astronomy for constructional materials for an Echelle Spectrograph at La Palma.

(77) £3,334, £2,494 and £2,343 for the Department of Physics and Astronomy for Comet Halley observations.

(78) £2,982 for observations at SAAO in connection with commissioning of CCD camera.

(79) £2,902 and £2,547 for the Department of Physics and Astronomy for imaging and doppler imaging studies of Comet Giacobini-Zinner.

(80) £2,441 for the Department of Physics and Astronomy for models of planetary nebulae, with emphasis on dust and interaction with stellar winds.

(81) £2,228 for the Department of Physics and Astronomy for chiral and topological models for baryons.

(82) £2,136 for the Department of Physics and Astronomy for observations at National Observatory, Brazil: distribution and time variation of cometary species with a novel CCD camera.

(83) £1,970 for the Department of Physics and Astronomy for the re-installation of high-latitude interferometer following storm damage.

(84) £1,680 for the Department of Physics and Astronomy for observations at La Palma.

(85) £1,678 for the Department of Physics and Astronomy for observations at UKIRT.

(86) £1,434 for the Department of Physics and Astronomy for infrared photometry.

(87) £1,197 for the Department of Physics and Astronomy for observations at IRTF-NS.

(88) £884 and £674 for the Department of Physics and Astronomy for observations on INT.

(89) £682 for the Department of Physics and Astronomy for the optical identification of the eridanus deep X-ray survey.

(90) £444 for the Department of Physics and Astronomy for attendance at Tycho data analysis consortium meeting — Copenhagen University, 1985.

(91) £45,750 for the Department of Physiology for the study of the mechanism of exocytosis in sea urchin eggs.

SHELL UK EXPLORATION AND PRODUCTION

£105,000 for the Department of Mechanical Engineering as an industrial sponsor's contribution to the London Centre for Marine Technology.

SIGMA-TAU

£20,000 for the Department of Medicine for the study of the metabolism of carnitine, acetylcarnitine and propionylcarnitine.

SIR HALLEY STEWART TRUST

£15,713 and £2,619 for the Department of Obstetrics and Gynaecology for Fetal diagnosis of haemoglobinopathies.

SIR JULES THORN CHARITABLE TRUST

£10,894 for the Department of Obstetrics and Gynaecology for a neonatal nursing study.

SOCIETY FOR GENERAL MICROBIOLOGY

£5,598 for the Department of Biochemistry for the study of the mechanisms responsible for the stabilisation of DNA structure in plasmids from extreme thermophile.

SOUTH OF SCOTLAND ELECTRICITY BOARD

£3,300 for the Department of Geography for a study to establish the distribution of aquatic plant life in Loch Fleet.

SPIDER SYSTEMS

£7,000 for the Department of Computer Science for TCP/IP software development.

E. R. SQUIBB AND SONS LTD

£10,000 for the Department of Geriatric Medicine for a second study of Captopril.

STANLEY THOMAS JOHNSON FOUNDATION

£10,000 for the Department of Surgery for laser studies.

STATOIL

£10,000 for the Department of Mechanical Engineering as an industrial sponsor's contribution to the London Centre for Marine Technology.

STERLING-WINTHROP GROUP

(1) £6,311 for the Department of Geriatric Medicine for the study of stanozol and calcium in osteoporosis.

(2) £3,000 for the Sub-Department of Periodontology (The Dental School) for the completion of the Durapatite study.

(3) £8,600 for the Department of Surgery for a study of prostoglandins and pyrogastrone.

SYSTEM DESIGNERS PLC

£6,650 for the Department of Computer Science for a survey of transformational techniques.

TTI HOLDINGS

£10,000 for the Department of Mechanical Engineering as an industrial sponsor's contribution to the London Centre for Marine Technology.

UNITED KINGDOM ATOMIC ENERGY AUTHORITY

£1,500 for the Department of Computer Science for the production of a report on Grey Book to X400 networking.

£23,436 for the Department of Physics and Astronomy for the study of the avoidance of deterioration of reflectivity of aluminium films in the Columbus 900-1200 A spectrometer.

£3,200 for the Department of Physics and Astronomy for studies of atomic collisions relevant to fusion.

SWEDISH NATIONAL INDUSTRIAL BOARD

£10,000 for the Department of Mechanical Engineering as an industrial sponsor's contribution to the London Centre for Marine Technology.

UNITED STATES AIR FORCE

(1) $50,000 for the Department of Physics and Astronomy for the development of an atmospheric lidar system.

(2) $20,480 for the Department of Physics and Astronomy for studies of atmospheric structure variation.

(3) $20,000 for the Department of Physics and Astronomy for "Components of an atmospheric lidar system".

US COASTGUARD

£10,000 for the Department of Mechanical Engineering as an industrial sponsor's contribution to the London Centre for Marine Technology.

US PUBLIC HEALTH SERVICE

(1) $36,659 for the Department of Anatomy and Embryology for the study of muscle ultrastructure in trachea, bronchi and lung vessels.

(2) $42,642 for the Department of Zoology and Cell Biology for "Regulation of human T and B cell responses *in vitro*".

UNIVERSITY OF CAMBRIDGE
(WITH SCIENCE AND ENGINEERING RESEARCH COUNCIL)

£28,933 for the Department of Geological Sciences for Mineral Studies, jointly with Cambridge University.

UCH SPECIAL TRUSTEES

(1) £17,450 for the Department of Surgery for studies on fibrinolysis in colorectal cancer.

(2) £11,317 for the Department of Surgery for studies on dietary cholesterol.

(3) £10,891 for the Department of Surgery for the study of collagenase and its serum inhibitors in inflammatory bowel diseases, etc.

UNIVERSITY OF KARLSRUHE

DM 81,900 for the Department of Civil and Municipal Engineering (Transport Studies Group) for a comparison of road safety in Great Britain and the Federal Republic of Germany.

VG SEMICON

£10,000 for the Department of Electronic and Electrical Engineering for an optical instrument study.

WELLCOME TRUST

(1) £101,826 for the Department of Anatomy and Embryology for a study of neuronal gene expression in the developing and adult rat brain.

(2) £74,990 for the Department of Anatomy and Embryology for the investigation of plasticity in the spinal cord.

(3) £47,577 for the Department of Anatomy and Embryology (History of Medicine Unit) to study the career, achievements and influence of Sir Henry Dale, FRS.

(4) £35,954 for the Department of Anatomy and Embryology to study the role of direct cell to cell communication during development.

(5) £34,811 for the Department of Anatomy and Embryology (History of Medicine Unit) for the study of diagnostic practice in Britain in the late eighteenth and early nineteenth centuries.

(6) £34,643 for the Department of Anatomy and Embryology, grant renewal for the Wellcome Unit for the History of Medicine.

(7) £28,932 for the Department of Anatomy and Embryology for the study of the formation and growth of gap functions in developing smooth muscles.

(8) £27,737 for the Department of Anatomy and Embryology for the study of the segregated visual pathways in macque monkey cortex.

(9) £25,890 for the Department of Anatomy and Embryology for the study of the distribution of small ions during early development of the mammalian embryo.

(10) £17,421 and £345 for the Department of Anatomy and Embryology for the study of German medical education: its influence on British medical students and scientists 1850-1914.

(11) £11,688 for the Department of Anatomy and Embryology (History of Medicine Unit) for the study of the founding and function of the voluntary hospitals in 18th century England.

(12) £11,450 for the Department of Anatomy and Embryology (History of Medicine Unit) for the study of hygienic philosophy, custom and policy in the 18th and 19th centuries.

(13) £10,820 for the Department of Anatomy and Embryology for the study of the schizophrenic brain.

(14) £9,983 for the Department of Anatomy and Embryology for the study of the role of intercellular functions in animal tissue.

(15) £7,371 for the Department of Anatomy and Embryology (History of Medicine Unit) for the study of medical theorists and the forging of the mechanical philosophy in 17th century England.

(16) £6,020 for the Department of Anatomy and Embryology for the study of neurotransmission and neuromodulation in the rat spinal cord.

(17) £4,837 for the Department of Anatomy and Embryology for neurobiological studies of the enteric nervous system.

(18) £4,222 for the Department of Anatomy and Embryology to determine when, during development of the nervous system, cortical cells acquire more than one neuroactive substance.

(19) £25,174 for the Department of Anthropology for the study of mortality patterns in London, 1670-1830, their structure and change.

(20) £2,143 for the Department of Biochemistry for a study of development and differentiation in erythroid tissues.

(21) £20,332 for the Department of Chemistry for the study of the isolation and properties of mast cells from human gut, lung and skin.

(22) £2,274 for the Department of Community Medicine for research in Clinical Epidemiology.

(23) £75,670 for the Department of Experimental Pathology for the study of roles for GTP in stimulus secretion coupling.

(24) £22,537 for the Department of Genetics and Biometry for the study of the effects of cogenesis of factors which impair spermatogenesis.

(25) £13,578 for the Department of Genetics and Biometry for the study of the genetics of chemoreception in mice.

(26) £2,680 and £2,407 for the Department of Genetics and Biometry for a study of the effects of male-sterile chromosome re-arrangements in the mouse.

(27) £1,935 for the Department of Histopathology for the study of the early stages of extra-nodal lymphonas using techniques of genetic analysis.

(28) £14,283 for the Department of Medical Microbiology for the study of the histopathogenic mechanisms of reactions and their relation to nerve damage in borderline leprosy.

(29) £39,322 for the Department of Medicine for a study of the immune response to specific antigenic challenge in patients with Systemic Lupus Erythematosus.

(30) £6,395 for the Department of Obstetrics and Gynaecology for the development of first trimester antenatal diagnosis for the haemoglobinopathies.

(31) £59,602 for the Department of Pharmacology for the investigation into patch-clamp analysis of neurotransmitter-receptor channels.

(32) £17,843 for the Department of Pharmacology for the study of electrophysiology of opiate influences on noiceptive transmission.

(33) £3,459 for the Department of Pharmacology for a study of noradrenaline-activated Ca-channels in isolated hepatocytes.

(34) £59,683 for the Department of Physiology for the study of the electrical properties of retinal müller cells.

(35) £26,623 for the Department of Physiology for the study of inhibitory amino acids receptors of the mouse spinal cord.

(36) £15,891 for the Department of Physiology for the study of polyphosphoinositide metabolism and calcium store at fertilisation and during the cell cycle.

(37) £2,400 for the Department of Physiology for the study of cell cycle calcium transients.

(38) £2,046 for the Department of Physiology for a study of plasma proteins in embryonic development.

(39) £540 for the Department of Physiology for the study of the mechanisms underlying prolonged changes in excitability of neurones in the cerebral cortex.

(40) £40,510 for the Department of Surgery for the study of photodynamic therapy for gastrointestinal cancer.

(41) £39,746 for the Department of Zoology and Cell Biology for a study of the isolation of CDNA clones encoding a putative neurotropic factor in skeletal muscle.

(42) £17,406 for the Department of Zoology and Cell Biology for the study of signals into Murine B-cells.

(43) £4,605 for the Department of Zoology and Cell Biology for the study of the growth and characterisation of TNP-insulin specific Murine T-cell clones.

(44) £357 and £285 for the Department of Zoology and Cell Biology for the study of glycoproteins transducing signals into Murine B-cells.

WINTHROP FOUNDATION

£8,550 for the Department of Medicine (General Practice Unit) for a course in Urban Primary Health Care for GPs.

WOLFSON FOUNDATION

£143,000 for the Department of Mechanical Engineering for "Crack detection in off-shore structures".

WORLD HEALTH ORGANISATION

(1) $24,703 for the Department of Community Medicine for "Data processing and analysis for case-control studies: oral contraceptives and cardiovascular disease.

(2) $5,000 for the Department of Obstetrics and Gynaecology for the study of hereditary diseases and new treatment for thalassaemia.

ZYMA (UK) LTD

(1) £9,975 for the Department of Geriatric Medicine for a pilot study of Paroven in the treatment of venous leg ulcers.

(2) £2,945 for the Department of Geriatric Medicine for a lactitol study.

APPENDIX VII

COLLEGE ACCOUNTS 1985-86

The Balance Sheet and Income and Expenditure Account for the year will be found on pages 273-274.

INCOME AND EXPENDITURE

INCOME for the year exceeded EXPENDITURE by £22,910. The net deficit carried forward on the Income and Expenditure Account was £4,840,902.

Income, including allocations from Reserves, exceeded that for 1984-85 by £6,379,367 including grants from the Court of the University which decreased by £202,444, fees which increased by £485,565 and grants for research which increased by £3,018,349.

Expenditure was £4,926,312 more than in 1984-85. An additional £664,090 was spent on academic departments and services. Maintenance of premises increased by £904,245. An additional £282,044 was spent on administration and miscellaneous expenditure increased by £310,218.

Income and expenditure under the main classifications in 1985-86 as compared with 1984-85 and 1980-81 are shown in the following table.

	1980-81		1984-85		1985-86	
	£	%	£	%	£	%
EXPENDITURE						
Salaries and Pensions of Teaching Staff	13,595,895	32.9	17,673,483	31.0	18,123,729	29.3
Departmental Expenses including Library	8,392,351	20.3	11,173,002	19.6	11,386,846	18.4
Research Grants	8,557,496	20.7	13,532,178	23.8	16,297,893	26.3
Maintenance of Premises	6,581,982	15.9	8,722,628	15.3	9,626,873	15.6
Administration	2,454,980	5.9	3,245,336	5.7	3,527,380	5.7
Other	1,784,882	4.3	2,495,842	4.4	2,719,423	4.4
Transfer to General Reserves	—	—	104,697	0.2	191,334	0.3
	£41,367,586	100.0	£56,947,166	100.0	£61,873,478	100.0
INCOME						
Endowments	338,429	0.8	394,954	0.7	421,888	0.7
Grants	24,269,683	59.1	31,842,923	57.3	31,640,479	51.1
Donations	854,069	2.1	140,091	0.3	190,397	0.3
Fees	5,942,910	14.5	6,663,768	12.0	7,149,333	11.6
Grants for Research	8,557,496	20.8	13,992,964	25.2	17,011,313	27.5
Research Training Support Grant	64,886	0.1	91,145	0.2	97,102	0.1
Other	1,067,127	2.6	2,507,808	4.5	2,419,346	3.9
Transfer (To) From Specific Reserves	—	—	(116,632)	(0.2)	2,966,530	4.8
	£41,094,600	100.0	£55,517,021	100.0	£61,896,388	100.0

EXTRA-BUDGETARY ACTIVITIES

The College administers the finances of many research projects supported from outside sources. 920 were being pursued actively at 31 July 1986. Income increased from £13,992,964 in 1984-85 to £17,011,313 in 1985-86.

UNIVERSITY COLLEGE LONDON
BALANCE SHEET AS AT 31 JULY 1986

1985		1986	
£		£	£
	FIXED ASSETS		
22,016,496	Land and Buildings		24,605,530
	INVESTMENTS at lower of cost and		
7,601,930	Market Value		5,445,542
29,618,426			30,051,072
	CURRENT ASSETS		
248,268	Stores	226,580	
6,647,230	Expenditure Recoverable from Grants	7,865,348	
2,808,386	Debtors and Amounts Paid in Advance	2,937,894	
1,551,519	Short-Term Cash Deposits	2,854,767	
285,164	Cash at Bank and in Hand	(344,671)	
11,540,567		13,539,918	
	Less: CURRENT LIABILITIES		
(4,583,209)	Creditors and Accruals	(6,070,320)	
6,957,358	NET CURRENT ASSETS		7,469,598
36,575,784	NET ASSETS		37,520,670
4,059,054	TRUST FUNDS		4,504,446
£40,634,838			£42,025,116
	REPRESENTING:		
21,972,128	Capital Reserve		24,605,530
(3,851,026)	Adverse Balance on Other Reserves		(3,775,896)
8,338,043	Provisions		7,632,598
526,865	Balance carried forward on Revenue Grants		386,782
9,589,774	Earmarked Funds		8,671,656
36,575,784			37,520,670
4,059,054	TRUST FUNDS		4,504,446
£40,634,838			£42,025,116

INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31 JULY 1986

1984-85		1985-86	
£		£	£
	INCOME		
31,842,923	Grants from University Court		31,640,479
6,663,768	Fees		7,149,333
394,954	Endowments		421,888
140,091	Donations		190,397
13,992,964	Grants for Research		17,011,313
91,145	Research Council Training Support Grants		97,102
1,917,551	Contributions for Services Rendered		1,952,301
65,946	College Properties — Rents		
65,946	Receivable		92,810
36,168	Appropriation from Special Funds		48,993
73,875	Miscellaneous		64,236
414,268	Interest Receivable		261,006
£55,633,653			£58,929,858
	EXPENDITURE		
3,239,470	Administration	3,550,852	
38,541,753	Academic Departments	43,105,143	
1,687,068	Academic Services	1,869,958	
8,668,599	Maintenance of Premises	9,791,116	
440,483	General Education Expenditure	583,653	
715,203	Student Facilities and Amenities	645,006	
2,972,729	Miscellaneous	1,359,494	
539,994	Capital Expenditure met from Income	800,490	
49,450	Increase in Provision for Salary Awards	46,515	
—	Transfer to Equipment and Furniture	70,000	
(12,280)	Increase/(Decrease) in Committed Balances	(140,083)	
£56,842,469			61,682,144

1984-85		1985-86	
£		£	£
(1,208,816)	DEFICIT ON YEAR'S WORKING	(brought forward)	(2,752,286)
	TRANSFER (TO)/FROM SPECIFIC RESERVES:		
(174,665)	Long-Term Maintenance	2,751,184	
137,841	Restructuring	240,285	
(40,937)	Earmarked Funds	25,789	
(38,871)	Miscellaneous	(50,728)	
(116,632)		2,966,530	
	TRANSFER (TO) GENERAL RESERVES		
(104,697)	College Fund	(191,334)	2,775,196
(1,430,145)	SURPLUS AFTER TRANSFERS FROM RESERVES		22,910
(3,433,667)	ACCUMULATED DEFICIT AT 1 AUGUST 1985		(4,863,812)
£(4,863,812)	ACCUMULATED DEFICIT AT 31 JULY 1986		£(4,840,902)